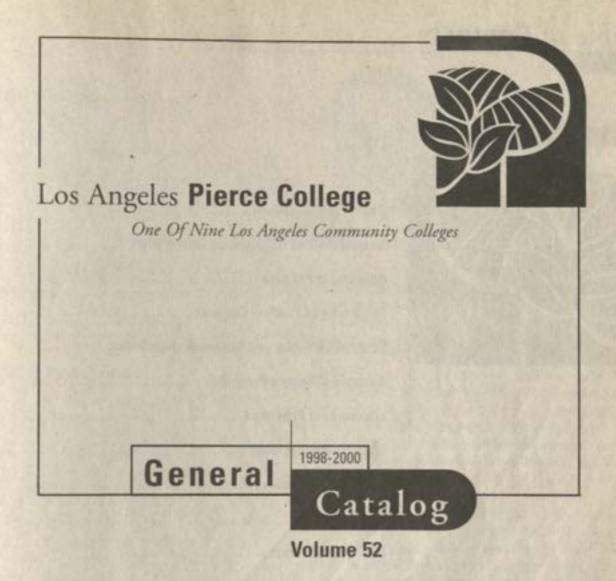


6201 Winnetka Avenue Woodland Hills, CA 91371

For Faster Service Find the Proper Office Listed Alphabetically Below For Offices Not Listed Call Campus Operator at (818) 347-0551 or (805) 495-0050 Also visit our website at http://www.lapc.cc.ca.us

All numbers listed below are (818) area code

ADMINISTRATIVE AND CAMPUS SERVICES		INSTRUCTIONAL DEPARTMENTS	
Admissions	719-6404	Agricultural Sciences	719-6463
Assessment Center/Matriculation	719-6499	American Sign Language	
Associated Students	719-6411	Anthropology	719.6466
Athletic Director		Art	719.6475
Bookstore Information	347-0313	Art Gallery	719-6498
Building & Grounds		Astronomy	710-6461
Bull, The	719-6427	Automotive Service Technology	719,6484
Business Office		Biology	719.6464
Career & Transfer Center		Business Administration	710,6470
Child Development Center		Chemistry	710.6464
Citizenship Center		Computer Programming	
Community Services		Computer Technology	
Cooperative Work Experience Education		Earth Science	
Counseling		Economics	
Disabled Student Services	719,6610	Electronics	
EOP&S		English	
Financial Aid		English as a Second Language	
Foundation for Pierce College			
GAIN/CalWorks	710.6400	Geography	719-0400
Graduation		Geology	
Health Center		History	
Information Dark	710-42/0	Honors Program	
Information Desk	719-6401	Humanities	
Interpreter Services for Deaf	719-6430	Industrial Technology	
Lauring Control	/19-0917	Library Science	
Learning Center	710-4230	Life Science Learning Center	
Library	719-6409	Life Science	
Library, Periodicals	/19-6410	Mathematics-Chair	
Lost & Found	719-6450	Mathematics-Information	
Matriculation	719-6449	Media Arts	
Media Center	719-6424	Modern Languages	
Museum, Natural Sciences	719-6465	Music	
Performing Arts Building	719-6488	Numerical Control	
Personnel	719-6407	Nursing & Allied Health	719-6477
Placement	719-6454	Office Administration	
Plant Facilities	719-6441	PACE	
Police	719-6450	Philosophy	
President	719-6408	Photo Lab	
Purchasing	719-6431	Physical Education-Men	719-6455
Receiving	719-6445	Physical Education-Women	719-6473
Records	719-6404	Physics	
Relations With Schools	719-6406	Political Science	
Roundup	719-6427	Psychology	719-6470
Safety & Police	719-6450	Secretarial Science	
Scholarships	719-6422	Sociology	719-6469
Special Services	719-6430	Speech Communication	710-4296
Student Activities	719-6418	Theater Arts	719-6488
Student Employment	719-6454	Theater Arts-Shop Office	719-6487
Student Services.	719-6419	Welding	719-6484
Veterans	/19-6428	Woodworking	719-6474



Los Angeles Pierce College 6201 Winnetka Avenue Woodland Hills, California 91371 (818) 347-0551

Pierce College is a tax-supported educational institution which offers post-high school opportunities for men and women and is administered by the Los Angeles Community College District.

Accreditation

Los Angeles Pierce College is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, (3402 Mendocino Avenue, Santa Rosa, CA 95403 (707)569-9177), an institutional accrediting body recognized by the Commission on Recognizion of Postsecondary Accreditation and the U.S. Department of Education.

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Accuracy Statement

The Los Angeles Community College District and Los Angeles Pierce College have made every effort to make this catalog accurate and may, without notice, change general information, courses, or programs offered. The reasons for change may include student enrollment, level of funding, or other issues decided by the district or college. The district and college also reserve the right to add to, change, or cancel any rules, regulations, policies and procedures as provided by law.

Los Angeles Community College District

770 Wilshire Boulevard Los Angeles, California 90017 (213) 891-2000

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Nondiscrimination Policy

All Programs and scrivines of the Los Angeles Community College District shall be operated in a manner which is free of discrimination on the basis of sace, color, national origin, ancestry, religion, creed, sex, pregnancy, marital status, medical condition (cancer related). sexual orientation, age, disability, or venerans status (Reference: Board Rule 1202).

Equal Opportunity Policy Compliance Procedure

In order to innore Equal Opportunity Policy Compliance at Los Angeles Pierce College, please direct inquiries to the College Compliance Officer Pfullip Pearson at (#18) 718-4206. In addition, inquiries may be directed to An Bergo at the District Office of Affirmative Action at (213) #91-2000, ext. 2315;

Regla de No Discriminación

Todos los programas y actividades del Los Angeles Community College District se implementan de manera que sea libre de discriminación a base de rara, color, nacionalidad, mrepasalos, religión, credo, seso, embaram, estado civil, condición médica, orientación sexual, edad, incapacidad o si sea o no sea veterano (Referencia: Regla 1202 de la Junta).

Politica de Acuerdo coa los Procedimientos de Igualdad de Oportunidades

Para poder acquirar igualdad de oportunidades en Los Angeles Pierce College, por favor dirija sus preguntas a Phillip Pearson (818) 710-4206.

Ademàs. Puede también dirigit sus preguntas a An Bergo en la oficina de Acción Afirmativa del Districo, teléfono (213) 891-2000, est. 2315.



A Message From The President

Do you have the will to prepare?

This semester begins the 51st academic year of Los

Angeles Pierce College. It's as good as any semester to begin or renew your quest for a degree or a set of academic credits that would boost your progress towards a better status in life. a foot in the door that leads to a rewarding career.

One thing is sure-it's good that you are thinking about your future because that's where you'll spend the rest of your life. However good or bad your past has been is not as important as what you do today. The past is a cancelled check. Today is cold cash that you can squander or wisely invest. And, tomorrow is a promissory note that will be only as solid as the investment of time, thought and effort that you put in today.

Change is the one constant in life that we can count on. Change, by itself, is unsettling and bewildering enough. But when it comes at such dizzying speed as it does these days, you cannot afford to shrug and leave your future to chance. Ready or not, the whole globe is being changed by the forces

of technology. We either plan to change with it or we shall be changed by it in ways that we might regret. In my view, the best way to predict the future is to create it. And, one of the best ways to create it is to acquire more knowledge and skills now.

Pierce College offers you today many programs and skill-building courses that can help you create a bright future. If you have the will to succeed, Pierce has the will to help you. The important question is-Do you have the will to prepare for your future?

Only you can supply the answer to that question.

E. Bing Inocencio, Ph.D.

President

General Information

College Information

History of the College

Los Angeles Pierce College has been a landmark in the West San Fernando Valley for over 50 years. In December 1943, 392 acres of land set in rolling hills was purchased to establish the Clarence W. Pierce School of Agriculture named after the Los Angeles City Board of Education member instrumental in forming the new college over the objections of many who thought the West Valley too rural to support a learning institution.

The first classes at Pierce, which were designed to provide rechnical and practical agricultural training, began in the fall of 1947 under bare light bulbs in makeshift classrooms created from Quonset huts salvaged from World War II. The College's first students, 212 World War II veterans (77 full-time and 135 part-time male students) entolled in 46 courses and weathered the sun, the winds, power failures, floods, and mud.

Community pressures and demands soon caused the College to broaden its educational scope and also to admit women in February 1951. In the summer of 1956, by official action of the Board of Education, the College name was changed to Los Angeles Pierce College. Under this new name, the College continues at one of nine colleges in the Los Angeles Community College District.

As the College has built permanent classrooms, laboratories, and arhletic facilities, the surrounding land has also developed. Now Warner Ranch, the last remaining farmland to the west, has been replaced by a well-planned business park and shopping centers.

Today the College serves a highly literate population, preparing students to take their place or to rotrain in other industries at the forefront of technological advances. The College temains unique to the greater Los Angeles area because of its farm and its instructional program in agriculture, natural resources management, animal health technology, and related fields, but may be best characterized by its broad range of instructional programs. Students may also choose to pursue a program in liberal arts and sciences and then transfer to a four-year college or university, or they may select from a variety of occupational fields including computer technology, journalism, nursing and allied health, office administration, welding, numerical control, and quality assurance.

Complementing the instructional programs are community services workshops for adults and children on topics of popular interest.

College Campus

Pierce College is located on 427 acres in the western San Fernando Valley. Founded in 1947 as an agricultural college, large sections of tillable and range land have been preserved as an enclave within a subusban environment. The College maintains herds of cattle, sheep, and swine, as well as orchards of citrus and other deciduous trees. Pars of the college land. Canyon de Lana, located in the northern end of the Chalk Hills, has been act aside as a nature preserve. This area of campus also serves as a feeding ground for large flocks of Canada goese during the winter months.

Besides classrooms and laboratories, the College maintains many special facilities to supplement its educational and extracurricular programs. Athletic facilities include a stadium, baseball field, tennis courts, swimming pool, and an equestrian arena. The College is also proud of its library, Learning Center, writing and math labs, Career Center, Campus Center, cafeteria, bookstore, and Performing Arts Building. Most college facilities are accessible to students with physical handicaps.

The College Colors

The College colors, selected by the students of Pierce College in 1947, are scarlet and white.

Regular Program

The regular program consists of two semesters, generally 20 weeks in length. Classes are scheduled from 7 a.m. to 10 p.m. There are also Saturday offerings. All college classes are open to regularly carolled students.

Courses in the late afternoon and evening are designed to meet community needs for specialized vocational and general education courses, as well as courses which transfer to four-year colleges and universities. These classes are raught by the regular college faculty and experienced instructors from all the instructional disciplines.

Summer Session

Summer Session will be offered subject to approval by the Board of Trustees.

Library

The Pierce College Library contains a collection of over 90,000 volumes, including books and materials required for supplementary study, and a representative collection of recreational reading material. The Library subscribes to almost 400 periodicals and newspapers, and has an extensive microfilm and microfiche collection. The online public access catalog, and current print and online periodical indices help locate information in books, newspapers, and journals. Professional librarians are always available to assist Library patrons.

The Library is centrally located on the main campus mall. Facilities include study carrels, group study rooms, a typing room, and copiers. A brochure is available to help students ger acquainted with Library resources. Further information is available in the Library.

1998 2000

Mission

The following statement of college mission and educational philosophy was adopted by the Pierce College Council on June 2.

Los Angeles Pierce College is committed to quality education and to diverse and enriching activities. Its mission is to provide comprehensive lower-division education and programs that are appropriate to the community it serves and that meet the changing needs of students.

Educational Philosophy

Los Angeles Pierce College affirms the principle that individuals should have opportunities to develop to their full potential. Therefore, we recognize our responsibility:

- to provide educational opportunity to all persons in the community regardless of race, color, national origin, ancestry, religion, creed, sex, pregnancy, marital status, sexual orientation, age, handicap or veterans status,
- to provide rigorous, high quality educational experiences so that students can truly benefit from and use their education,
- to provide effective counseling and other support services that contribute to instructional effectiveness and student success.
- to provide multicultural, international, and intercultural collegiate experiences that foster individual and group understanding.
- to effectively manage educational and financial resources.
- to distribute and decentralize decision making to its most effective level, and
- to provide an attractive, safe, comfortable, and clean campus.

Limited English Proficiency

Occupational education clauses are open to all students. Although the lack of proficiency in English is no barrier to enrollment in occupational education courses, it is suggested that students deficient in English utilize the services of the College that are provided for persons who are limited in English proficiency.

Functions Of The Community Colleges

To accomplish the educational philosophy and mission of the Los Angeles Community Colleges, Los Angeles Pierce College offers the following types of educational programs.

TRANSFER. A college transfer program which enables the student who completes two years of study to continue into upper division work at accredited four-year colleges and universities through careful and continuous articulation with accredited collegiate institutions. and high schools.

OCCUPATIONAL. An occupational education program planned to offer the student basic business, technical, and professional curricula to develop skills which can lead to employment, job advancement, certification, or the associate degree.

GENERAL EDUCATION. A program of general education comprised of associate degree programs and other planned experiences which develop knowledge, skills, and attitudes necessary for the student to be effective as a person, a member, a worker, and a citizen, thereby enhancing the quality of life for the individual and for the society at large.

TRANSITIONAL EDUCATION. A program of remedial and basic skills education for students needing preparation for community college level courses and programs; and English as a Second Language instruction for immigrants, foreign students and other students with limited English proficiency.

COUNSELING AND GUIDANCE. A counseling and guidance program incorporating academic, career, and personal counseling and assistance in matters of admissions, financial aid, job placement and student activities; to assist the student in the establishment of educational goals and in the selection and pursuit of a life work. compatible with his or her interests, aptinudes, and abilities.

CONTINUING EDUCATION. A program of continuing education comprised of graded and ungraded classes to provide opportunities for personal and occupational competence that supplement formal full-time college arrendance.

COMMUNITY SERVICES. A program of community services offered to meet the needs of the community for vocational and recreational courses, community and cultural events, and civic functions. completely financed by fees charged those in attendance.

JOINT PROGRAMS. Joint programs with business, industry, labor, education, government and other institutions which are of mutual benefit to sponsoring institutions, enhance the educational opportunities of program participants, and advance the mission and functions of the District.

College Goals

The following college goals were adopted by the Pierce College Council on June 2, 1992. They are listed in order of priority.

- To provide an academic program to meet the needs of students for transfer to baccalaureate institutions.
- To provide an occupational education program to develop skills that will lead to employment, job advancement, certification, or the associate degree.
- To provide a program of general education that develops knowledge, skills, and attitudes necessary for the student to be effective as a person, a worker, and a citizen.
- 4. To penvide a program of transitional education, including remedial and basic skills education, for students needing preparation for college level courses and programs.
- To support and encourage activities for students, faculty, and staff ourside the formal educational process that promote academic enrichment, social skills, cultural understanding, and health and wellness.
- To work enoperatively with local businesses, industries, and citizens to provide extension and contract courses and programs.
- To provide cultural and recreational activities that integrate with the cultural development of the community served by the college.

Advisory Committees

Advisory Committees lend assistance to the College in the development of occupational programs that will prepare students for useful and productive lives. The committee members make known the occupational needs as they pertain to employable skills in the specific occupation and in the geographic area of the College, and report on changing technology as it might affect the College programs.

Advisory Committees are extremely important in the development of a two-way system of understanding and communication and for the partnerships that are necessary between the College and the community.

Affirmative Action

The policy of the Los Angeles Community College District is to implement affirmatively equal opportunity to all qualified employees and applicants for employment without regard to race, color, national origin, ancestry, religion, creed, sex, pregnancy, age, disability, marital status, medical condition (cancer related), sexual orientation, or veteran status. Positive action will be taken to ensure that this policy is followed in all personnel practices, including recruitment, hiring, placement, upgrading, transfer, demotion, treatment during employment, rate of pay or other forms of compensation, selection for training, layoff, or termination. A vigorous Affirmative Action Program will be maintained to ensure appropriate utilization of certain protected groups in specific areas and levels within the district workforce through the implementation of specific result-oriented procedures and activities (Board Rule 101301).

Inquiries regarding Affirmative Action at Los Angeles Pierce College should be directed to the College Compliance Officer, Phillip Pearson, at (818) 710-4206.

Sexual Harassment Policy

The Los Angeles Community College District has a policy which provides formal and informal procedures for resolving complaints, Copies of the policy and procedures may be obtained from the Compliance Officer, Phillip Pearson, at ext. 206, or by calling the Office of the Vice Chancellor of Educational Services at (213) 891-2279, or the District Office of Affirmative Action Programs at (213) 891-2315.

It is the policy of the Los Angeles Community College District to provide an educational employment, and business environment free from unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct or communications constituting sexual harassment. Employees, students, or other persons acting on behalf of the District who engage in sexual harassment as defined in this policy or by state or federal law shall be subject to discipline, up to and including discharge, expulsion or termination of contract.

Academic Freedom

Academic freedom insures the faculty's right to teach and the student's right to learn. The discussion of sexual ideas, taboos, behavior or language which is an intrinsic part of the course content does not constitute sexual harastment. The Board of Trustees teaffirms its commitment to academic freedom, but recognizes that academic freedom does not allow discriminatory or harassing conduct.

Definition of Sexual Harassment

Harassment occurs when unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature:

- Is made either explicitly or implicitly a term or condition of an individual's employment, academic status, or progress;
- Has the purpose or effect of having a negative impact upon the individual's work or academic performance, or creating an intimidating, hostile, or offensive work or educational environment;
- Is used as the basis for employment or academic decisions or any decision affecting the individual regarding benefits and services, honors, programs, or activities available at or through the District, regardless of submission to or rejection of such conduct.

For the purpose of further clarification, sexual harassment may include, but is not limited to the following type of conduct:

- making unwelcome, unsolicited written, verbal, physical and/or visual contact with sexual overtones
- verbal harassment or abuse
- unwelcome pressure for dates
- disparaging remarks about one's gender
- sexist jokes about one's clothing, body, or sexual activities
- deliberate blocking of physical movement
- obserne gestures
- demands for sexual favors accompanied by implied or overt threats

- display of sexually suggestive objects, carroons, posters
- request for sex in exchange for grades, earned or deserved, letters
 of recommendation, employment opportunities
- making reprisals, threats of reprisal, or implied threats of reprisal following rejection of harassment by suggesting or actually withholding grades, a promotion recommendation, scholarship recommendation or a poor performance evaluation

Complaint Procedure

When an employee, student, or other individual feels, perceives, or has actually experienced conduct that may constitute sexual harastment, it is that person's responsibility to inform the individual engaging in such conduct that the behavior being demonstrated is offensive and must stop.

When it is not possible or practical to confront the person directly, or if the situation continues, the conduct must be reported to the Sesual Harassment Compliance Officer at the work site.

Complaints may be filed by persons other than the person who is the recipient of the unwanted conduct.

The Sexual Harassment Compliance Officer shall receive the complaint, make notes, conduct a preliminary investigation, and notify the alleged offender, the appropriate college President or District administrator, and the Director of the Office of Affirmative Action Programs, within five (5) business days of a potential violation of this policy.

During the process of the investigation, the complainant/victim and the alleged offender have the right to be represented, at all times, by a representative of their choice.

Each college President shall designate a Sexual Harassment Compliance Officer. The Chancellor shall designate the SHCO at the Educational Services Center.

Each college President, in consultation with the ASO President, shall designate an employee who shall serve as Advocate for Students.

The District shall provide annual notice of the summary of this policy to each District employee. A summary of the policy shall be published in each college catalogue and class schedule.

The Director of the Office of Affirmative Action shall be assigned the responsibility of the District compliance. The Director shall provide mandatory education and training programs on sesual harassment as stipulated in this policy.

Necessary forms to file a complaint of sexual harassment may be obtained from the Sexual Harassment Compliance Officer at the site, and from the Office of the Dean of Students. Anyone who believes that they are a victim of sexual harassment may also call (213) 891-2315.

The entire policy and procedures shall be prominently posted with other official District announcements.

Pre-Complaint Questionnaire

Prior to filing a formal complaint, the complainant must pursue informal resolution by filing a pre-complaint questionnaire. This process is limited to 30 days.

False Allegations

Anyone who files a pre-complaint questionnaire or a complaint in which he/she knowingly makes false allegations of facts shall also have violated this policy and shall be subject to applicable disciplinary action.

Formal Complaint

If an informal resolution is not reached within thirty (30) days the formal process will begin at the request of the complainant. In conducting the investigation, the Sexual Harassment Compliance Officer will take every reasonable step to ensure due process for all parties. The Compliance Officer shall, within the prescribed time frame, make appropriate notification to the complainant, the alleged offender, and to the District administration.

Within sixty (60) calendar days the SHCO shall complete the investigation and provide a written report to the college President at his/her college site, or at the District Office, the Vice Chancellor or the Chancellor. A copy of the report shall be sent to the Director of the Office of Affirmative Action Programs.

The college President, or at the District, the Vice Chancellor or the Chancellor, shall independently assess the investigative report and render a decision. Prior to making the decision, the alleged offender with a representative of his/her choice shall have the opportunity to make an oral statement, within fifteen (15) calendar days from the receipt of the SHCO report.

By certified mail, a written decision shall be mailed to the complainant, the alleged offender, with a copy to the Director of the Office of Affirmative Action Programs.

Appeal

If the complainant/victim is not satisfied with the Written Decision, he/she may appeal to the District's Board of Trustees by submitting a written appeal to the Chancellor's Office within fifteen (15) days. The appeal shall state with particularity the basis for the appeal.

The Chancellor shall present the written appeal, the Written Decision and the investigative report to the Board of Trustees in closed session. The Board of Trustees decision shall be the District's Final Written Decision.

The complainant/victim has the right to file a written appeal with the State Chancellor's Office of the California Community Colleges within thirty (30) days of this Final District Decision.

Additional Remedies

The complainant or alleged victim may pursue independently civil law remedies, including but not limited to injunctions, restraining orders, or other orders. An individual who believes that he/she is the victim of sexual harassment may also file a complaint with the Department of Fair Employment and Housing. The Equal Employment Opportunity Commission, the Office for Civil Rights, United States Department of Education, whether or not the complainant chooses to utilize the District's internal procedure.

Confidentiality

All persons involved in investigation of complaints shall maintain the confidentiality of the matters discussed, except as may be required or permitted by law, which include the rules and regulations of the District.

A complete record of each complaint and investigation shall be kept by the Director of the Office of Affirmative Action Programs.

The Written Decision regarding the results of the investigation shall be placed in the personnel file of each employee involved as an alleged offender, alleged victim or complainant.

Disciplinary Procedure

Disciplinary action, if any, shall be pursued in accordance with the alleged offender's due process rights, as defined by law, the Board Rules, the Personnel Commission, and/or any applicable collective bargaining agreement or Memoranda of Understanding.

Disciplinary action shall include, without limitation, verbal warning, probation, suspension or expulsion, letters of reprimand, Notices of Unsatisfactory Service, suspensions, demotions or dismissals.

Retaliation

Anyone who makes a complaint, or participates in any action authorized under this policy, shall not be subject to retaliatory action of any kind by any employee or student of the Los Angeles Community College District.

Sexual Assault

The Los Angeles Community College District is committed to providing a safe environment for its students, faculty, and staff. The Los Angeles Community College District Board of Trustees condemns any act of sexual assault committed on any of its facilities. In the event of sexual assault committed on grounds or in facilities maintained and/or used by the District, any victim of a sexual assault who is one of the District's students, faculty, staff, or visitors shall promptly receive appropriate treatment and full and accurate information. Individuals who commit sexual assault while on properties within the control of the District shall be subject to appropriate criminal prosecution and/or District disciplinary procedures.

Confidentiality is fundamental to all aspects of cases dealing with sexual assault. The names of sexual assault victims shall not be revealed by persons responsible for implementing and enforcing the provisions of this Chapter, except with the consent of the victim.

Instructional Alternatives

Honors Program

The Pierce College Honors Program is designed for serious, motivated students. The program offers approximately 10 academically enriched general education courses each semester. These courses are challenging and enhance the academic skills necessary for successful transfer. For further information see the current Schedule of Classes or call (818) 719-6485.

Eligibility

There are two basic eligibility requirements: grade point average and college-level writing ability. High school graduates need a 3.0 cumulative GPA, and Pierce students need a 3.0 GPA in all course work including 12 or more UC-transferable units. All students must qualify for College English (English 101) either by scores on the English placement test or by passing prerequisite courses.

Transfer

Honors Program students successfully transfer to colleges and universities across the country. However, we have a special arrangement with the UCLA College of Letters and Sciences Transfer Alliance Program. Students who complete at least 60 units in a pattern that satisfies both the UC lower division and major course requirements, complete at least eight (8) Honors classes or 24 Honors units within these 60 units, and maintain an overall grade point average of 3.25, are eligible for the TAP certification.

Satisfactory completion of the above guarantees priority consideration for admission to the UCLA College of Letters and Sciences with junior standing. Sumilar agreements with Chapman University, Occidental College, Pepperdine University, Pomona College, and USC are available.

Application

To be admitted to the Honors Program you must meet the above eligibility requirements, file a completed Honors Program application, send an official copy of all high school transcripts to the Honors Program Office, and take the English placement test.

Applications are available in the Honors Program Office,
ADM 1027.

Program Benefits

Students in the Honors Program have early bookstore privileges, special Honors counseling, and recognition both on the transcript and at graduation.

In addition, Honors classes are limited to ewenty-five students, All Honors students also receive the special services provided by membership in the UCLA Transfer Alliance Program whether or not they are planning to transfer to UCLA. These services include a free UCLA College Library card, tickets to cultural events, and much more, USC and Peppenline also offer tickets to cultural events.

Instructional Television (ITV)

Each semester, the District-wide Instructional Television program of the Los Angeles Community College District presents, via television, a variety of transferable undergraduate level college credit courses.

Instructional Television courses are convenient, flexible and especially suitable for college students needing to supplement their on-campus program or to add classes for those times when campus attendance is not possible.

Students enroll by the telephone registration system or by mail, view telecourse lessons at home or at a Campus Learning Resource Center, complete reading and study assignments, attend seminars held on weekends at a Los Angeles Community College near their home, and take a midterm and final exam.

An instructor with office hours and phone times is assigned to each relecourse. The students entelled in Instructional Television classes keep in touch with faculty by telephone, voice mail, e-mail, U.S. mail, and fax, as well as at the seminars. Interested students are invited to contact Instructional Television or visit the office located on the campus of Los Angeles City College, Bungalow 120, 855

North Vermont, Los Angeles, California 90029. Call (213) 953-4488 or (818) 901-8935 for information.

International Education Program: Study Abroad Classes

College credit classes are offered by the International Education Program with instructors and classes selected from the nine Los Angeles Community Colleges. Programs are offered in more shan a dezen countries around the world. Opportunities for study include Spanish Language and Civilization, and Art in Mexico, Spain and Costa Rica: Creative Writing in Prague and Dublin; French, French Civilization and Art in Paris: Italian, Italian Civilization and Art in Horence, Art in Spain; Marine Biology in Mexico, Theater in England; Business in China: Chinese Civilization and Chinese language in China, and Art in Bali. Partnership programs are being established with overseas colleges and universities; international distance learning programs are beginning to appear. Students may spend a semester in Salamanca, Spain; Paris, France; Florence, Italy; or London. England. Work study programs are available in London. Paris and Madrid. A program of cooperation has been set with Barnsley College in England for Music Students of Los Angeles Pierce College and Theater students at Los Angeles Harbor College. On-site investigation of the history and culture of other nations provides students and their instructors with some of the best educational experiences of their lives. The International Education Program demonstrates the commitment of Los Angeles Pierce College to furthering development of international and intercultural awareness. Call (213)891-2282 for further information. You can also visit our website at http://www.laced.edu.

The Pierce College Extension Program

Pierce Extension is the educational outreach program of the College offering community and continuing education classes as well as cultural and recreational activities through the Office of Community Services on a not-for-credit basis.

Community Education provides apportunities for personal and professional development, skill improvement and upgrading, cultural enrichment and recreational enjoyment for all ages. Continuing Education, a community-based program, emphasizes lifelong personal and professional growth.

Contract Education offers personalized, quality classes and timely workshops to local business and industry on campus or at the workplace. This program can augment a company's current training program or develop specialized classes to meet professional needs.

These activities are offered in addition to Pierce College's instructional program and are not academic equivalents of regular credit classes or prerequisites for the traditional college program. Most programs are supported by participant fees and teceive no direct general purpose tax funds.

Through the Extension Program, Pierce College hopes to serve your interests, and through you, our whole community. For a calendar of activities or further information, please contact the Community Services Office at (818) 719-6425.

PACE

Project For Accelerated College Education

This is the dynamic new program geared to meet the needs of working adults. PACE blends college credit courses around hectic work and family schedules. The results have been amazing. Take a few minutes to learn more about this program which has changed the futures for hundreds of Pierce students.

The Full-Time College Transfer Program For Working Adults

- Earn an associate degree in two years.
- Three fully transferable options available:
 - 1. Business
 - 2. Educator Preparation
 - 3. Transfer Studies
- Complete 12-14 units in each college semester.
- PACE courses are transferable and accepted by any UC or CSU system and most private colleges and universities in California.

Offerings for the 1998-99 academic year

Business	Educator Preparation	Transfer Studies
Business 5	Geography 2	Health 9
Math 238	Geography 14	Physical Science 1-
Anthro 101	History 41	Anthro 102
Geography 1	Spanish 10	Geography 2
Geography 15	Biology 3	Humanities 30
English 103	Computer Science 501	History 1
Business 15	Physical Science 1	Anthro 101
Psychology 3	Psychology 1	Geography 1
Speech 121 '		Geography 15

Or prepare for any of these programs with Bridge classes Math 112, Math, 115, Math 125 English 21, English 28, English 101

Learn whether you already qualify for this fast-paced program by picking up a program brochure in the PACE office. We are located in the Administration Building, room 1027, between 8 a.m. - 6 p.m., Monday through Thursday and Friday 8 a.m. - 4 p.m. Our phone number is (818) 719-6485, or send e-mail to Mike_Cornner@laced.cc.ca.us.

L.A. Fierce Correge

Admission & Registration Information

Admission Eligibility

Persons who possess a high school diploma or its equivalent meet the basic eligibility requirement for admission to any public California two-year community college.

Persons who do not possess a high school diploma or its equivalent but who meet additional criteria are also eligible for admission if in the judgment of the College Admissions Officer they are capable of profiting from the instruction offered.

Additional eligibility eriteria include:

- 1. Persons who are eighteen (18) years of age.
- Persons who are apprentices, as defined by Section 3077 of the California Labor Code.
- 3. Persons in grades K-12, under special circumstances.

Information regarding other eligibility criteria and/or admission procedures is available in the Office of Admissions and Records.

International Student Admission

International students may be accepted to Pierce College for either Fall or Spring Semester. The forms required for admission are available in the International Students' Office in the Campus Center. Each applicant must provide evidence of a TOEFL score of 500 or completion of ELS Level 109 or completion of Level 9 through the ESL Division at California State University, Northridge, a college application, a statement of financial support, and a complete set of transcripts. A non-refundable \$35 processing fee must accompany each application. The deadlines for submission of these materials are November 15 for spring semester and June 15 for fall semester; for out-of-country applicants. Persons who are in the United States may submit applications at a later date, July 15 for fall semester and December 7 for spring semester.

Upon receipt of these application materials, a decision regarding admissibility is made, and an I-20 is issued to the applicant. The mudent must present the I-20 to either the Immigration and Naturalization Service (when changing visas) or to a United States Embassy or Consulate (when the student is out of the country) in order to obtain an F-1 Visa. Immigration regulations require that all F-1 Visa students must be enrolled in a minimum of 12 units each temporer.

Any F-1 Visa student who is not enrolled in 12 units is considered "out of status" and jeopardizes his/her stay in the United States.

Information regarding international student admission or immigration regulations pertaining to F-I student status may be obtained through the International Students' Office.

See also International Sendents Program, page 35.

Procedures For Admission And Registration

Admission

The following procedures must be followed by all day or evening students.

- Submit an Application for Admission. Application forms are available at the Information Desk beginning on the first day of each application period. Applications are accepted as indicated in the schedule of classes. See the College Calendar in the schedule of classes for deadlines for the submission of applications.
 - a. Provide a Social Security number on the application form. The Los Angeles Community College District maintains a student record system that uses the Social Security number to identify the individual's record. However, if students do not wish to report their Social Security numbers, an alternate identification number will be assigned by the College. Changes in a student's ID# may be made only in the Admissions Office. All future correspondence and requests for transcripts and other information must include this number. Social Security numbers, like all other student information, are confidential and will be used only as identification numbers.
 - b. Complete all required information. All information requested on the application must be provided. The applicant must declare under penalty of perjury that all information on the application is correct. All information is subject to verification; fabrification or withholding of information shall constitute grounds for dismissal.
- Take the Chemistry Placement Test. Required only of students who wish to enroll in Chemistry 101, General Chemistry I, as their first chemistry course at Pierce College.
- Take the English and math placement tests. These are required for enrollment in entry-level English and math courses.
- Attend an advisement session. A counselor will explain college and transfer requirements and help you plan your schedule.
- 5. Register for classes by telephone.

English Placement Test

The results of the English Placement Test or English Enrollment Authorization Form must be on file in order to enroll in English 20, 21, 28 or 101, 102, 103, English 81, 82, 84-87, or English 101, 102, 103. Authorizations for students registering by telephone will be checked automatically on-line.

All students planning to enroll in an English course for the first time are expected to take the English Placement Test at the Pierce College Assessment Center (Campus Center). Contact the Assessment Center at (818) 719-6499 for an appointment and sample test information. Placement results or prerequisite courses taken at other colleges may be presented to the Assessment Center to be substituted for the Pierce English Placement Test.

Placement recommendations made by the English Placement Test are intended to assist students with enrolling in classes where they are most likely to succeed. Upon completing the test, students are informed of their placement and given their authorization to enroll. Students seeking authorization to enroll in a course other than that recommended by the assessment test must meet with an English Department advisor.

Students need to provide evidence of prerequisite completion either through coursework in the Los Angeles Community College District, by taking the Pierce English Placement Test, or through transcripts from other schools presented at the Assessment Center.

Mathematics Placement Test

All students who have not completed a college mathematics course must take an appropriate Mathematics Placement Test at the Pierce College Assessment Center (Campus Center). Contact the Assessment Center at (818) 719-6499 for an appointment and tample tests. Review is essential because the test cannot be taken again for six months.

Placement tests are given at four levels: Algebra Readiness, Elementary Algebra, Intermediate Algebra, and Procalculus. Upon completing the test, students are advised of their recommended placement and given an authorization to enroll in that course, Students who wish to challenge the recommendation of the amerament test should consult a Mathematics Department advisor.

Residence Requirements

California Residence Requirement

To attend any of the Los Angeles Community Colleges as a resident of California, a student is required to have been a California resident for more than one year immediately preceding the Residence Determination Date. The "Residence Determination Date" is that day immediately preceding the opening day of instruction of the semester or summer session. Residence is defined as a union of act and intent.

Non-Resident

A non-resident student is one who has not had residence in the State of California for more than one year immediately preceding the Residence, Determination Date. Residence is defined as a union of act and intent. Physical presence alone is not sufficient to establish California residency nor is intent when not coupled with continuous physical presence in the State. Certain non-U.S. citizens are permitted to establish residency and certain others are not. Check with the Admissions Office regarding your particular status.

Residency classification is made when the application is accepted. Students may petition for a change of classification through the third week of the semester.

A student classified as a non-resident will be required to pay nonresident tuition fees as established by the District Board of Trustees.

Residence Reclassification

Students who have been classified as non-residents must petition to be reclassified as residents before the start of any semester if they feel their status has changed. Non-resident students applying for reclassification as residents must also show financial independence for the past three years. The Residence Reclassification form is available in the Admissions Office and must be submitted prior to the semester in which reclassification as a resident is to be effective.

Residence Appeal

A student may appeal the residence classification determined by the College. The appeal must be made within 30 calendar days of receipt of notification of the residence classification from the Admissions Office. The appeal must be submitted in writing to the College Admissions Officer who will forward it to the District Residency Appeal Officer.

Matriculation

Matriculation - What is it?

Matriculation is a process designed to assist students in achieving their educational goal at Pierce College. It is an agreement between the College and the student. Pierce College agrees to provide an organized process of admission, orientation, assessment, counseling, and student progress follow-up. The student agrees to declate a specific educational goal, attend class, and complete all assigned coursework.

What is the purpose of Matriculation?

The purpose of Matriculation is to ensure that students complete their college courses, persist to the next academic term and achieve their educational objective. Matriculation provides students with easy access to the College's programs and services. These services can help you to have higher grades, complete more classes, and persist from semester to semester.

Who is eligible for Matriculation?

All first-time students who have declared a goal of earning a certificate, AA, or transferring are subject to matriculation.

Matriculation at Pierce College

Matriculation is a campus-wide program. Success is measured by the attainment of the student's stated educational goal or objective. The following are the components or steps of Matriculation:

- Step 1: Assessment All students who go through the matriculation process take an assessment exam. This assessment takes 3 1/2 hours to complete and covers reading comprehension, grammat, essay writing, and math. The assessments are administered by the Assessment Center, and practice tests are available to help students prepare for the exam. The assessment tests help place students in classes where they are most likely to succeed. Placement recommendations are advisory and intended to assist students.
- Step 2: Orientation At the time of your assessment testing, you will view an orientation video, which will provide you with information about the Pierce campus, including the College's programs, services, academic expectations, and institutional procedures. All new students are encouraged to sign up for Personal Development 1, an extended orientation class. Even if you did well in your high school courses, this course could benefit you?
- Step 3: Counseling and Advisement All matricularing students are required to meet with a counselot, before registering, to develop a Student Educational Plan (SEP). This plan is an educational blueprint that outlines exactly what courses you need to meet your educational goal. Undecided students are encouraged to register for a career counseling class (Personal Development 4 or 8) taught by a career counselot.
- Step 4: Follow-up After enrolling for the first semester, you will continue to receive follow-up services through the Counseling Department, Career Center, and Early Alert program. These services will include help with planning your

program for each semester that you are at Pierce, preparing to transfer, and earning an Associate degree. In addition, the Early Alert program helps identify students who begin encountering academic difficulty early in the semester.

 Step 5: Matriculation Exemptions At the time of application, all students are classified as exempt or non-exempt from various matriculation components. Our exemption policy is listed below;

Assessment Exemption Criteria:

- (1) Students who have already carned an A.A./A.S. degree or higher.
- (2) Students who are attending Pierce with a goal of personal interest and who have completed fewer than 16 units of college credit.

Note: Students who have completed assessments or prerequisite courses at other colleges, and have presented this documentation for verification to the Assessment Center Director. (Note: Verification must be presented before an exemption can be granted).

Orientation Exemption Criteria

- (1) Students who have already earned an A.A./A.S. degree or higher.
- (2) Students who are concurrently enrolled at a four-year college or university and who have completed fewer than 16 units of college credit.
- (3) Students who are concurrently enrolled in the 12th grade or below and who have completed fewer than 16 units of college enedit.
- (4) Students who are attending Pierce with a goal of personal interest and who have completed fewer than 16 units of college credit.

Counseling/Advisement Exemption Criteria:

- (1) Students who have already earned an A.A./A.S. degree or higher.
- (2) Students who are attending Pierce with a goal of personal interest and who have completed fewer than 16 units of college credit.

Matriculation Waivers

Students wishing to waive any matriculation component should request a waiver form from the Assessment Center in the Campus Center. Please fill out the form, then return it to the Assessment Center. You will need to retain a copy of the waiver.

Alternative Matriculation Services

Pierce College provides the following alternative matriculation services:

- Pierce has translated our application questions into various languages. At the present time, you may request information in Farsi, Japanese, Viernamese, and Spanish at the Information Desk.
- If you have a physical, visual, or communication limitation that might require special anistance for any matriculation component, please come to the Matriculation Office for more information on how the college can provide accommodations for you.

Students with complaints or challenges to any matriculation provisions may appeal to the Matriculation Coordinator in the Assessment Center or call (818) 719-6499 for more information.

Registration Policies

Registration

Registration is the process whereby the student is entered onto the College roll for the semister and is entalled in specific classes. All students will be issued a Registration/Fee Receipt as the last step in the registration process.

Appointments to Register

Upon acceptance of a student's application and completion of matriculation requirements, new students will be issued a Permit to Register. The Permit will provide the student with an appointment to register into the College. Registration is by appointment only. Students are urged to file their applications as early as possible since appointments are given out on a first-come first-served basis.

Adding and Dropping Classes

Adding Classes

Only students who have been admitted to the college and are in approved active status may add or attend clauses.

Admitted students who wish to add a class once the semester begins must obtain an add card from the instructor or the college Add Desk. It is the student's responsibility to have the add processed before the last day to add, which is listed in the college semester calendar.

Dropping Classes

Students wishing to drop one or more classes must do so through the Admissions Office by filing a DROP CARD or by using the STEP telephone registration system.

It is the student's responsibility to officially drop from class by submitting a drop card to the Admissions Office or using the STEP telephone system. Students must drop by the end of the second week of the semester to assist fees. Any drops or exclusions that occur between the end of the 4th week (or 30% of the time the class is scheduled, whichever is less) and the end of the 14th week (or 75% of the time the class is scheduled, whichever is less) will result in a "W" on the student's record which will be included in the determination of progress probation. Drops are not permitted beyond the end of the 14th week.

A grade (A, B, C, D, F, CR, INC, or NC) will be assigned to students who are entrolled past the end of the 14th week even if they stop attending class, except in cases of extenuating circumstances. After the last day of the 14th week (or 75% of the time the class is scheduled, whichever is less) students may withdraw from class upon petition demonstrating extenuating circumstances and after consultation with the appropriate faculty.

District Policies

Open Enrollment

Unless specifically exempted by law, every course for which State aid is claimed is fully open to any person who has been admitted to the College and who meets the appropriate academic prerequisites.

Course Prerequisites

It is the student's obligation to know and meet course prerequisites. These are stated in the catalog description of each course.

Credit for Prerequisites

Students may not concurrently enroll in and receive credit for an advanced course and its prerequisite(s). Students may not enroll in and receive credit for the prerequisite(s) to an advanced course if they have previously completed the advanced course.

Violation of this regulation will result in exclusion from class and/or denial of course credit.

Cancellation of Classes

The College reserves the right to discontinue any class with insufficient enrollment.

Pierce College Policy On Prerequisites, Corequisites, Recommended Preparation, And Limitations On Enrollment

The faculty has identified knowledge and skills that are necessary for success in certain classes. Each time you register, you need to desermine if any courses you want require previous knowledge. The catalog and schedule of classes use four terms to show if such knowledge is required:

PREREQUISITE: means a condition of enrollment that a student is required to meet in order to demonstrate current readiness for enrollment in a course or educational program (i.e., a course you must pass, or a requirement you must meet before enrolling in a given course). Students will not be permitted to enroll in such courses and programs without the appropriate prerequisite.

COREQUISITE: is a condition of entollment consisting of a course that a student is required to take simultaneously in order to enroll in another course (i.e., a course you must take at the same time as another course.)

RECOMMENDED PREPARATION: means a condition of enrollment that a student is advised, but not required, to meet before or in conjunction with enrollment in a course or educational program (i.e., preparation that is helpful, but not required, before enrolling in a given course).

LIMITATIONS ON ENROLLMENT: A prerequisite necessary to protect a student's health and safety and the health and safety of others. (see prerequisite). Limitations on enrollment may also apply to certain courses (e.g., performance, honors, and special programs) if comparable courses are provided.

Unit of Work/Study Load

Study List Limitations

Maximum and minimum unit requirements may apply, as follows:

UNIT MAXIMUM. The maximum study load is 18 units during a regular semester and 7 units (or two classes) during a sammer session. The normal class load for students in the fall or spring semester is from 12 to 18 units a semester for full-time students. A college program of 15 units is equal to at least a 50-hour work week for most students. Students who desire to take 19 or more units may file a Petition for Excess Units in the Associate Dean of Admissions Office during the week before the semester begins or the first two weeks of the semester.

Those students who will be employed while attending college should consider reducing their programs accordingly. It is suggested that those students who are employed full-time should enroll in no more than one or two classes or 9 units maximum.

Restricted Programs

Students may be required to enroll in a restricted program if their grades or test results indicate that this is in their best interest. The College may limit either the number of units in which a student may; enroll or may specify certain subjects as a condition of corollment. Students who violate such requirements will be subject to dismissal.

Concurrent Enrollment

Concurrent enrollment in more than one section of the same course during a semester is not permitted, with the exception of certain Physical Education classes on a limited basis.

Concurrent enrollment in courses which are cross-referenced to each other is not permitted (i.e., courses designated "same as" in the District Directory of Educational Programs and Courses). Violation of this regulation will result in exclusion from class and denial of course credit in both courses.

Enrolling in classes scheduled or conducted during overlapping times is not permitted. In addition to exclusion from both classes and denial of credits, violators will be subject to disciplinary action (See Standards of Student Conduct).

Auditing Classes

Students may be permitted to audit a class under the following conditions:

- Payment of a fee of \$15 per unit. Fees may not be refunded or transferred. Students enrolled in classes to receive credit for ten or more semester units shall not be charged a fee to audit three or fewer semester units per semester.
- Students auditing a course shall not be permitted to change their enrollment in that course to receive credit for the course.
- Priority in class enrollment shall be given to students desiring to take the course for credit.
- Permission to enroll in a class on an audit basis is at the instructor's discretion.
- Participation in class activities by student auditors will be solely at the discretion of the instructor, who may provide a written statement of the extent of participation allowed beyond observation.

Student Fees

Enrollment Fee

Enrollment fees are set by the California State Legislature and are subject to change,

Section 72250 and Section 72252 of the State Education Code requires Community Colleges to charge enrollment fees of each student enrolling in college. Effective July 1, 1998 the fee prescribed by these sections is twelve dollars (\$12) per unit per semester with no maximum per semester. If you take ten units, the cost will be \$120. If you take fifteen units, the cost will be \$120.

See page 17 for Fee and Refund Schedules.

If at the time of entollment you are receiving benefits under the Aid to Families with Dependent Children Program, the Supplemental Security Income/State Supplementary Program, or the General Assistance Program, the enrollment fee will be waived. For information on the procedure for requesting a waiver, contact the Financial Aid Office prior to the date of your enrollment.

Financial aid may be available to students who meet the qualification requirements. Students with questions concerning financial aid eligibility should contact the College Financial Aid Office.

Applications should be submitted as soon as possible.

Enrollment Fee Assistance

The college offers entollment fee assistance to students who are unable to pay the enrollment fee. Students should complete the Board of Governors' Enrollment Fee Waiver application (available inside the Schedule of Classes, as well as at the Information Desk in the Administration Building and at the College Financial Aid Office) and submit it to the college Financial Aid Office to process.

The Enrollment Fee Walver is available to students who receive Temporary Assistance for Needy Families (TANF) (formerly AFDC), General Relief (GR), or Supplemental Security Income (SSI), dependents of deceased or disabled veterans of the U.S. Military, and students whose household size and family income fall within the following limits:

Number in Household (including journel)	d (Adjusted Gree Income ander (Intaced Income)	
1.	\$ 7,500 or less	
2	\$15,000 or less	
3	\$16,000 or less	
4	\$17,000 or less	
•	Add \$1,000 for each additional dependent	

Note: Students who qualify for the Enrollment Fee Waiver either by receiving benefits listed above or by household size and income level are also exempt from paying the health fee.

Students with financial need established by the College Financial Aid Office may also be eligible for deferment of enrollment and health fees. 1998 2000

Enrollment Fee Refund Policy

For full term courses: The student will receive a full refund up to the end of the second week of classes. After that date, there will be no refunds unless a class is cancelled or rescheduled by the College administration. After the second week of the semester, fees will not transfer when the student adds and drops, whether or not the student has paid. Students who enroll and do not drop classes by the end of the second week of the semester will remain liable for all fees.

For short term courses: The student will receive a full refund up to the end of a period of time equal to 10% of total class time. There will be no refunds after that, unless the student must drop a class because it is canceled or rescheduled by the administration.

Health Services Fees

The Los Angeles Community College District charges a \$11.00 mandatory health fee for the Fall and Spring semesters and \$8,00 for the Summer semester, payable to one campus only, to cover the costs of health centers at each college. Students who are using a fee waiver to pay for enrollment fees are also waived from the health fee. If you are a member of a religious group that depends on prayer for healing. contact the Health Center for exemption procedures.

Student Representation Fee

A \$1 Student Representation Fee per semester is due at the time of registration. The fee was established to provide for the support of student representatives involved in governmental affairs.

Non-Resident Tuition Fee

The 1998-99 ruition fee for non-resident students is \$128 per semester unit for students who are non-residents from another state: \$133 per semester unit for unidents who are non-residents from a foreign country. Tuition must be paid at the time of registration. This fee is subject to change each academic year.

Please note: Non-resident students are also required to pay the community college enrollment fee.

Students must drop classes by the refund deadline in order to avaid being charged the enrollment fee and the non-resident tuition fee. In addition, after the refund deadline, fees will not transfer when students add and drop classes, whether or not fees have been paid.

Non-Resident Tuition Refund Criteria and Schedule

Non-resident students who formally drop part or all of their enrollment may request a refund of previously paid non-resident tuition in accordance with the schedule below. Such requests must be made in writing on a form provided by the District.

The date used for non-resident refund purposes is the date on which such requests is filed and time stamped, regardless of when separation may have occurred. All non-resident refunds will be made by mail.

Non-resident refunds will be computed as follows:

CLASS TYPE	DATE REQUEST IS TIME STAMPED	REFUND
Regular Length (Fall, Spring, Summer)	Through second week of insersection	Full Tairion
	After second week of instruction	No Refund
Short Term (Less then regular length)	Through 10 percent of class length	Full Tirition
	After 10 percent of class length	No Refund

Parking Fee

A parking permit is required at all times when using campus parking facilities during regular school hours, 7 a.m. - 10 p.m., Monday through Thursday: 7 a.m. - 3 p.m., Friday: Saturday, 7 a.m. - 3 p.m.

The Board of Trustees of the Los Angeles Community College District has authorized parking fees for all on-campus parking at district colleges.

To encourage membership in the Pierce College Associated Students Organization, the College Administration has entered into an agreement with the ASO whereby individuals who both pay the District parking fee and join the Associated Student Organization will receive as a benefit of membership preferred parking privileges on campus. Students displaying a Preferred Student Parking Decal may park, if space is available, in all student parking lots, including the preferred lots (1, 6, and 7), as well as legally allowable street parking space. The non-preferred parking lots (permit required) are 1. 2. and 4.

Fall And Spring Semester Parking Permit Fees

Non-Preferred/Restricted District Permit	\$20.00
A.S.O. Membership Fee	\$7.00
Preferred/Non-Restricted Permit TOTAL FEE	\$27.00
Charge to replace lost or stolen permit	\$20.00
Summer Session Parking Permit Fees	
Non-Preferred/Restricted District Permit	\$7.00
A.S.O. Membership Fee	\$3.00
Preferred/Non-Restricted Permit TOTAL FFF	\$10.00

Parking fees may be paid prior to the completion of registration. Students who do not elect to purchase the permit at that time may do so at any time during the semester at the campus Business Office located next to the Bookstore.

\$7.00

Charge to replace lost or stolen permit

Each student who pays the parking fees will be issued dry-mount parking decals. These decals are to be permanently attached to the front windshield in the corner on the passenger side.

It is the students' responsibility to make sure they know the current parking rules and regulations; if not sure, contact the Safety and Police Office. It is also the students' responsibility to make sure the current decal is visible to College Police Officers. The college is not responsible for lost permits under any circumstances.

Note: The issuance of a parking decal does not guarantee the student a parking space, only the opportunity to park in an appropriate lot if spaces are available. Any vehicle parked in the areas without the proper permit appropriately displayed will be cited.

SEE CLASS SCHEDULE FOR FURTHER INFORMATION.

Associated Student Membership Fee

Experience has demonstrated that student activities are essential features in the program of the College. These activities and programs are financed by money received from memberships in the Associated Students Organization. The charge is \$7 per semester.

The funds thus collected will be spent for the general welfare of the students in accordance with policies, rules, and regulations defined by the Board of Trustees. Membership in the Associated Students Organization is encouraged for all students, but is not mandatory.

Upon complete withdrawal from the college, the student may receive a refund of the Associated Student membership fee as follows:

Amount Paid	And Spring Semesters 1st Week	2nd Week
\$7.00	\$7.00	\$7.00
Amount Paid	Summer Session 1st Week	2nd Week
\$3.00	\$3.00	-0-

Board of Trustees rules govern the collection, deposit and expenditures of these funds. All records are audited annually by representatives of the Board of Trustees.

Instructional Materials

Students may be required to provide instructional and other materials for a credit or non-credit course. Such materials shall be of continuing value to a student outside of the classroom setting and shall not be solely or exclusively available from the District.

Additional fees may be required for printing documents in the Open Access Labs. These Labs may include, The Learning Center, English Writing Lab, Computer Science Lab, Business Department & Office Administration Labs, and 20-20 Lab. Please pay all fees at the Bookstone.

DUDE OF FEE	ASSOCIATE	REFUND DEADLINE
TYPE OF FEE	AMOUNT	REFUND DEADLINE
Enrollment Fee	\$12 per unit	End of the second week of the semester (Deadline for short term classes will be different for each class)
Non-resident Tuition (All non-resident student nay the \$12 per unit en- addition to non-resident Students from	rollmens fee in	
another State:	\$128 per unit	End of the second week of the semester
Students from another country:	\$133 per unit	(Deadline for short term classes will be
International Student (F1 VISA) Application Fee:	\$35	different for each class)
Health Services Fee	\$11.00	End of the second week of the semester
Audit Fee	\$15 per unit (Students who h enrolled in 10 st or more may aus to 3 smits withou	nits dit up
Student Representation Fee	\$1	End of the second week of semester when student withdraws from all classes
Parking Fee	\$20	End of the second week of the semester
Associated Students Organization Membership Fee	\$7	End of the first week of the semester - \$7 End of second week - \$5
Other Fees		
Emergency Processing	of Transcript	\$5
or Verification of Verification of Enrolls	nent	\$1
Record of Work in Pr	ogress	SI
Transcript		\$1

untidoascal use does it release the student's financial obligation for the fees. A student with an unpaid financial obligation will not be able to register for subsequent semesters.

1998 2000

Scholastic Policies

Attendance

Only students who have been admitted to the College and are in approved active status may attend classes.

Students should attend every meeting of all classes for which they tegister. To avoid being dropped from class, students should contact the instructor when they are absent for emergency reasons.

Students who are registered in a class and miss the first meeting may lose their right to a place in the class, but the instructor may consider special circumstances. During the first 14 weeks of the semester, whenever students have unexcused absences in excess of the number of hours the class meets per week, the instructor may exclude them from class. In addition, the instructor will consider whether there are mitigating circumstances which may justify the absences. If the instructor determines that such circumstances do not exist, the instructor shall exclude a student from the class.

Students are responsible for officially dropping a class that they stop attending. See section "Adding and Dropping."

Campus Procedure

Students who because of mitigating circumstances are unable to attend the first class meeting must leave a written message for the faculty member at the Information Desk in the foyer of the Administration Building. Telephone calls with such information will not be accepted.

Leave of Absence

A leave of absence is granted only by the instructor, and it is the responsibility of the student to satisfy the instructor as to the validity of the request for a leave of absence.

Withdrawal

Students intending to withdraw should avail themselves of the opportunity by first discussing the contemplated withdrawal with a counselot. Whether withdrawing from one class or all classes in which the student is enrolled, it is essential that standard withdrawal procedures be observed by filling out the proper forms in the Adminious and Records Office.

Lecture and Laboratory Credit

In computing the number of units granted for any course, Pierce College follows the general practice of granting one unit of credit for each lecture hour per week on the semester basis.

The College requires two or more hours of attendance per week for each unit of credit for non-lecture periods (laboratory, field work, physical education) which require a minimum of outside preparation.

Final Examinations

Final examinations are to be given in all subjects according to the schedule printed in the Schedule of Classes. No student will be excused from taking a final examination.

All faculty shall retain the final exams of every student for a minimum of one year after the end of the semester for which the final exam was given in order to permit students to examine their graded final exams.

Grades & Grading Policies

Grading Symbols and Definitions

Only the symbols in the grading scale given in this section shall be used to grade all courses offered in fulfillment of the requirements for an associate or baccalaureate degree, a certificate, diploma, or license.

Grades shall be averaged on the basis of the point equivalencies to determine a student's grade-point-average, using the following evaluative symbols:

SYMBOL	DEFINITION	POINT
A	Excellent	4
В	Good	3
C	Satisfactory	2
D	Passing, less than satisfactory	1.
F	Failing	0
CR	Credit (at least equal to a "C" grade or better – units awarded are not counted in GPA)	
NC	No-Credit (equal to a "D" or "F" grade -units are not counted in GPA)	

(CR and NC grades may be given only in courses authorized by the District Credit/No-Credit Option and Credit by Examination Policies.)

The following non-evaluative symbols may be entered on a student's record:

Symbol Definition

INC Incomplete

Incomplete academic work for unforesceable emergency and justifiable reasons at the end of the term may result in an "INC" symbol being entered in the student's record. The condition for removal of the "INC" shall be stated by the instructor in a written record.

This record shall contain the conditions for removal of the "INC" and a default grade to be assigned if missing work is not completed within one year from the end of the course. This record shall be given to the student, with a copy on file in the College Admissions Office until the "INC" is made up or the one-year time limit has passed.

A final grade shall be assigned when the work stipulated has been completed and evaluated, or when the one-year time limit for completing the work has passed.

The "INC" symbol shall not be used in calculating units attempted not for grade points. THE "INC" MAY BE MADE UP NO LATER THAN ONE YEAR FOLLOWING THE END OF THE TERM IN WHICH IT WAS ASSIGNED. The student may perition for a time extension due to unusual circumstances.

Note: Courses in which the student has received an Incomplete ("INC") may not be repeated unless the "INC" is removed and has been replaced by a grade of "D" or "F". This does not apply to courses which are repeatable for additional credit,

In Progress IP

The "IP" symbol shall be used only in those courses which extend beyond the normal end of an academic term. "IP" indicates that work is "in progress," but that assignment of a substantive grade must await its completion. The "IP" symbol shall remain on the student's permanent record in order to satisfy enrollment documentation. The appropriate evaluative grade and unit credit shall be assigned and appear on the student's record for the term in which the required work of the course is completed. The "IP" shall not be used in calculating grade-point-averages. If a student enrolled in an "open-entry, open-exit" course is assigned "IP" at the end of an attendance period and does not complete the course during the subsequent attendance period, the appropriate faculty will assign an evaluative symbol (grade) as specified above to be recorded on the student's permanent record for the course.

RD Report Delayed

The "RD" symbol may be assigned by the registrar only. It is to be used when there is a delay in reporting the grade of a student due to circumstances beyond the control of the student. It is a temporary notation to be replaced by a permanent symbol as soon as possible. "RD" is not used in calculating grade point averages.

Withdrawal

Students may withdraw from a class or classes through the last day of the fourteenth week of instruction or 75% of the time the class is scheduled to meet, whichever is less. To withdraw, complete a Drop Card in the Admissions and Records Office or use the STEP telephone system.

No notation ("W" or other) shall be made on the record of a student who withdraws during the first four weeks, or 30% of the time the class is scheduled, whichever is less,

Withdrawal between the end of the fourth week (or 50% of the time the class is scheduled to meet, whichever is less) and the last day of the fourteenth week of instruction (or 75% of the time the class is scheduled to meet, whichever is less) will result in a grade of "W". A student who remains in class beyond the fourteenth week or 75% of the time the class is scheduled shall be given a grade other than a "W", except in cases of extenuating circumstances.

After the last day of the fourteenth week (or 75% of the time the class is scheduled, whichever is less), the student may withdraw from class upon petition demonstrating extenuating circumstances and after consultation with the appropriate faculty. Students should obtain a petition in the Admissions Office. Extenuating circumstances are verified cases of accidents, illness, or other circumstances beyond the control of the student. Withdrawal after the end of the fourteenth week (or 75% of the time the class is

scheduled, whichever is less) which has been authorized in extenuating circumstances shall be recorded as "W".

The "W" shall not be used in calculating units attempted nor for the student's grade-point-average.

"W's" will be used as factors in progress probution and dismissal.

Credit/No-Credit Option

The College President may designate courses in the College Catalog wherein all students are evaluated on a "credit/no-credit" basis or wherein each student may elect, no later than the end of the first 30% of the term, whether the basis of evaluation is to be "credit/nocredit" or a letter grade. These courses will be noted in the College Schedule as being eligible for the Credit/No-Credit Option.

- USAGE FOR SINGLE PERFORMANCE standard. The credit/no-credit grading system shall be used in any course in which there is a single satisfactory standard of performance for which unit credit is assigned. A grade of Credit (CR) shall be assigned for meeting that standard, and a grade of No-Credit (NC) shall be assigned for failure to do so.
- ACCEPTANCE OF CREDITS. All units carned on a "credit/no-credit" basis in accredited California institutions of higher education or equivalent out-of-state institutions shall be counted in strisfaction of community college curriculum requirements.
- 3. RECORDING OF GRADE. A student who is approved to be evaluated on the "credit/no-credit" basis shall receive both course credit and unit credit upon satisfactory completion of the course. Satisfactory completion for credit is equivalent to the grade of "C" or better. A student who does not perform satisfactorily will be assigned a "No-Credit" (NC) grade.
- GRADE POINT CALCULATION. Units earned on a "credit/no-credit" basis shall not be used to calculate gradepoint-averages. However, units attempted for which "No-Credit" (NC) is recorded shall be considered in probationary and dismissal procedures.
- STANDARDS OF EVALUATION. The student who is enrolled in a course on a "credit/no-credit" hasis will be held responsible for all assignments and examinations required in the course and must meet the standards of evaluation which are identical for all students.
- CONVERSION TO LETTER GRADE. A student who has received credit for a course taken on a "credit/no-credit" basis, may not convert this credit to a letter grade.
- COURSE REPETITION. A student who has received a grade of "No-Credit" (NC) may repeat the course by meeting the requirements set forth by the District Course Repetition to Improve Substandard Grades Policy.

8. CAMPUS PROCEDURE

- Certain courses, noted in the Schedule of Classes, are evaluated on a Credit/No Credit basis only. Letter grades may not be assigned for these courses.
- In addition to courses mentioned above, a student has the option of selecting one course per semester to be graded on a Credit/No Credit basis. This option is available only for courses listed in the Schedule of Classes under "Courses Offered on a Credit/No Credit Basis."
- Selection of courses to be taken on a Credit/No Credit basis must be made during the time indicated in the schedule. Late requests will not be accepted.
- Once a course has been selected to be graded on a Credit/No Credit basis, a student cannot receive a letter grade for the course. The decision to take a course on this basis is irrevocable.
- The general practice at most four-year colleges is not to accept "credit/no credit" grades for courses required for the major or preparation for the major. A student planning to transfer to UCLA is required to have at least 42 units in regular letter grades.

Grades and Grade Changes

The instructor of the course shall determine the grade to be awarded to each student in accordance with the preceding Grading Symbols and Definitions Policy. The determination of the student's grade by the instructor is final in the absence of mistake, fraud, bad faith, or incompetency. The removal or change of an incorrect grade from a student's record shall be done only upon authorization by the instructor of the course.

In the case of fraud, bad faith, or incompetency, the final determination concerning removal or change of grade will be made by the College President.

Campus Procedure

Students should see the course instructor for a grade change. If the instructor is no longer on campus, students may petition the Office of Academic Affairs to have an instructor reevaluation of a course grade, provided the grade in question was originally issued within the last two years. Grade changes will not be considered for grades issued more than Z years ago.

Transcripts

Upon written request of the student, a copy of the student's academic record shall be forwarded to the student or his or her designated addressee promptly by U.S. mail or other responsible forwarding agency.

A student or former student shall be entirled to two free copies of the transcript of his or her record or to two free verifications of student records. Additional copies shall be made available to the student, or to an addrense designated by the student, at a cost of \$1. Students may request special processing to expedite their request for an additional fee of \$5 per transcript or verification. This option is subject to the College's ability to provide this service. Requests for transcripts or verifications may be obtained in the Office of Admissions. Transcripts from another institution are not available for copying,

The student's transcript may be withheld if 1) any library books or other library materials are charged to the student and are unreturned, or 2) there are any unpaid fees or charges due to the College. The transcript may be withheld until these obligations of the student to the College are discharged.

Academic Honors

This policy is adopted for use in the Los Angeles Community College District only. Other institutions may differ and students planning to transfer to another college should contact that institution regarding its policy.

Awards

Graduating students of outstanding personality, scholarship, and leadership are recognized through the yearly presentation of awards within the several departments of the College. Recipients of these awards are determined through department procedures.

President's Honor List

Students who have appeared on the Full-time or Part-time Dean's Honor List for three or more consecutive semesters will be placed on the President's Honor List. A notation of this award will appear on the student's transcript.

Dean's Honor List

Each semester a list is published containing the names of students who have completed 12 or more units of graded classes (credit/no-credit and incompletes are not included) during the preceding semester with a grade-point average of 3.5 or better, Part-time students may also receive recognition through the Part-time Dean's List, which honors students who have completed a minimum of 12 graded units at Pierce and 6 to 11 units of graded course work in the semester and have a GPA of 3.5 or better. For more details about the Part-time Dean's List, contact the Admissions and Records Office. Further recognition is afforded Dean's List students by means of a personal letter from the Vice President of Academic Affairs and a notation on the transcript.

President's Award

A perpetual trophy and scholarship have been donated by the Associated Student Organization to the College President so that one or two outstanding graduating students can be recognized. The student must have maintained a 3.0 GPA for all college work, successfully participated in co-curricular activities, demonstrated leadership, served both the College and the community, and exhibited desirable personal qualifications.

Academic Standards & Credit Policies

Credit by Examination

Some courses in the college catalog are eligible for credit by

Methods of obtaining credit by examination

- Achievement of a score of 3 or higher on certain Advanced Placement Examinations administered by the College Entrance Examination Board.
- Achievement of a score of 500 or higher on one of the College Level Examination Program (CLEP) general exams. Pierce College does not grant credit for the subject area exams.
- Credit by satisfactory completion of an examination administered by the college in lieu of completion of a course listed in the college catalog. This option is available for selected courses only. Contact the Admissions Office for the current course list and credit by exam petition. Petition requirements are 1) student currently registered at Pierce; 2) cumulative GPA of at least 2.0; 3) has taken less than 15 units credit by exam; 4) has completed at least 12 units within the Los Angeles Community College District: 5) course is offered on a credit by exam basis; 6) prerequisites (if any) for course are complete; 7) has not enrolled in or completed a more advanced course in the same area; 8) cannot be currently enrolled in course or have already earned a grade in the course.
- Achievement of a score that qualifies for credit on an examination administered by other agencies approved by the college.

Determination of Eligibility to Take College Administered Examinations. Students who qualify:

- Must be currently registered in the college, in good standing, and with a minimum grade point average of 2.0 in any work attempted at the college.
- May petition for credit by examination if they are
 - eligible to take such course for credit under existing regulations.
 - have not completed a course or are not in the process of taking a course which is more advanced than the course for which credit is requested. This requirement may be waived at the discretion of the appropriate administrator.
- Maximum credit allowable for credit by examination The maximum number of credits allowable for credit by examination for the Associate Degree shall be fifteen (15) units. Credit by examination transferred from other institutions is counted toward this maximum.

Limitations

Credits acquired by examination are not applicable to meeting such unit load requirements as Selective Service deferment, Veteran's or Social Security benefits.

5. Recording of credit

- 2.1. If a student passes the examination, the course shall be posted on his/her cumulative record indicating "Credit" in the "Grade" column.
- 2.2. The number of units of credit recorded for any course may not exceed those listed in the college catalog.

Acceptance Towards Residence

Units for which credit is given pursuant to the provision of this section shall not be counted in determining the 12 units of credit in residence requirement.

Recording of Grade

Students who successfully pass an approved examination shall have the record of such examination entered on their record as "CR" as provided by the District Grading Symbols and Definitions Policy. The student's records shall also be annotated "Credit by Examination."

Credit For Advanced Placement

TEST	AP .	EQUIVALENCY
American History	History 11, 12	6
Art: History	Art 101, 102	6
Studio Drawing	Art 201, 202	6
Studio General	Elective credit*	6
Biology	Biology 3	4
Computer Science	Computer Science 506	3
Economics	Economics 1 & 2	- 6
European History	Elective Credit*	6
French Language	Franch 1	5
Literature	Elective Credit*	6
German Language	German 1	5
Literature	Elective Credit*	6
Latin: Virgil	Elective Credit*	6
Catullus-Horace	Elective Credit*	6
Meth: Calculus AB	Math 261	5
Calculus BC	Math 261, 262	10
Music: Listen/Lit.	Music 111, 112	6
Theory	Elective Credit*	6
Physics B	Physics 6, 7	6
C: Mechanics	Physics 37	5
C: Elec. & Mag.	Physics 38	5
Spanish Language	Spanish 1	5
Literature	Elective Credit*	6
U.S. Government & Politics	Political Science 1	3
U.S. Government & Politics-Comp.	Political Science 2	3

*Satisfies six (6) units elective credit only--Not G.E. requirement

Minimum score needed for AP credit is 3. Some institutions require higher scores for course credit. Students should check with counselors and/or institution to which they plan to transfer.

Academic Renewal

The following policy applies only to classes taken at Pierce College. Students may submit a petition to the Office of Admissions and Records to have grades of "D" or "F", removed from their gradepoint-average under the following conditions:

- Students must have achieved a grade-point-average of 2.5 in their most recent 15 semester units, or 2.0 in their most recent 30 semester units completed at any accredited college or university, and
- At least two calendar years must have elapsed from the time the course work to be removed was completed.

If the above conditions are met, academic renewal shall be granted, consisting of:

- Eliminating from consideration in the cumulative grade-pointaverage up to 18 semester units of course work, and
- Annorating the student academic record indicating courses not included in the grade-point-average calculation due to Academic Renewal.
- Granting of Academic Renewal does not mean the course can be repeated beyond the maximum repeatability listed for the course.

Academic renewal actions are irreversible.

Course Repetition to Improve Substandard Grades

Students may perition for approval to repeat up to a total of 15 units in which substandard grades (less than "C," 2.0) were awarded.

Students may repeat the same course only once for this purpose.

Upon completion of a course repetition, students may petition to have the most recent grade earned computed in the cumulative grade-point-average, the substandard grade removed from the gradepoint-average calculation and the student's academic record so annotated.

No specific course or categories of courses shall be exempt from course repetition.

This policy is adopted for use in the Los Angeles Community

College District only. Other institutions may differ and students
planning to transfer to another college should contact that institution
regarding its policy.

Campus Procedure

"Request for Review of Student Record" forms are available at the Information Desk in the Administration Building. This form should be filed to request permission to repeat a course before enrolling in the course for a second time.

Course Repetition: Special Circumstances

Repetition of courses for which substandard work has not been recorded shall be permitted only upon advance petition of the student and with written permission of the College President or designee based on a finding that circumstances exist which justify such repetition. In such repetition under special circumstances, she student's permanent academic record shall be annotated in such a manner that all work remains legible. Grades awarded for repetition under special circumstances shall not be counted in calculating a student's grade-point-average.

Course Repetition and Activity Repetition

Certain courses in the Catalog may be repeated for additional unit credit. These courses, marked "RPT" in the Course Section of the Catalog, allow the student an expanded educational experience each time the student enrolls in the course. Enrollment in these courses is limited in any similar activity to a maximum of three repeats for a total of four (4) enrollments, regardless of the repeatability of individual courses. The activity limitation also applies to courses which are not repeatable in themselves but for which similar activities exist. For example, there are several similar course titles in Art, Music, Theater, and Physical Education which are considered to be the same activity. A student may enroll four times in courses which are considered to be the same activity, such as twice in Theater 279, Musical Theater (RPT 3), and twice in Theater 280, Musical Theater Worleshop (RPT 3). Any combination may be used as long as 4 enrollments in one activity is not exceeded.

This activity enrollment limitation began with the Fall 1983 term. Excess enrollment will result in administrative drop. Consult a counselor for the latest restricted activity enrollment list.

Note: Whenever the student's record is reviewed for the purpose of determining his or her unit credits, all of the student's record is reviewed, not just the course work since the beginning of Fall 1983.

Transfer Credit Policy

Transfer credit for lower division courses taken at regionally accredited institutions of higher education in the United States is accepted toward Associate Degrees or Certificates. Students must provide official transcripts.

For additional information, contact the Graduation Office.

Foreign Transcript Credit Policy

Students who have completed college level courses at schools outside the United States may perition for an unlimited number of lower division units of credit toward an Associate Degree or Certificate under the following conditions:

- Students must submit a detailed evaluation from an approved evaluation service. Students are responsible for the cost of this service.
- The foreign university or college must have been approved by that country's Ministry of Education at the time the student attended.
- No courses may be used to satisfy the Associate Degree's Reading and Wristen Expression or oral communication requirement unless the course was taken in a country where English is the native language.
- No course may be used to satisfy the Associate Degree's American Institutions requirement.
- In cases where equivalent course credit is not granted, elective credit may be awarded.

For additional information, contact the Graduation Office.

Credit for Courses Completed at Non-Accredited Institutions

Students transferring from non-accredited institutions may, after successful completion of 30 units with a "C" or better grade-point-average, apply for up to 15 units of credit in courses which parallel the offerings of the College.

The following exceptions may be made to this regulation:

1. Credit for Graduates of Diploma Schools of Nursing.

The following amount of credit is authorized for graduates of Diploma Schools of Nursing who enter the Los Angeles Community Colleges:

- 2.1. Thirty (30) semester units of credit will be given to graduates of Diploma Schools of Nursing under the following conditions:
 - 2.1.1. The student presents a valid, current California certificate as a licensed registered nurse to the designated administrative officer.
 - 2.1.2. The student has completed at least 12 units of credit at the College to which application is made.
- 2.2. The work of graduates of Diploma Schools of Nursing outside California will be recognized if the student has a valid, current California license. Credit will be given even though the license was obtained on the basis of reciprocity with another state rather than by examination.
- 2.3. Candidates for the Associate of Arts or Associate of Science Degree are exempt from Health Education as a general education requirement. No other general education requirements will be waived.
- Additional courses in Nursing may be taken for credit only upon approval of the Nursing Department.
- 2.5. The transcript is not to reflect the major field nor should the diploma, where given, indicate Nursing as a major.

2. Credit for Military Service Training

Students who are currently serving in or have served in the military service, may, after successful completion of at least one course with the Los Angeles Community Colleges, request an evaluation of credit earned through military service training schools and/or military occupational specialties.

3. Credit for Law Enforcement Academy Training

Credit for basic recruit academy training instructional programs in Administration of Justice or other criminal justice occupations shall be granted as follows:

- 2.1. Credit will be given for training from institutions which meet the standards of training of the California Peace Officers Standards and Training Commission.
- A single block of credit will be given and identified as academy credit.
- 2.3. One (1) unit of credit may be granted for each 50 hours of training, not to exceed ten (10) semester units or their equivalent.

Credits granted by an institution of higher education for basic recruit scademy training, under the above provisions, shall not be identified at equivalent to any required course in the major.

Academic Probation & Dismissal

Academic Standards for Probation

The following standards for academic and progress probation shall be applied as required by regulations adopted by the Board of Governors of the California Community Colleges. Probation shall be determined based on student course work dating from Fall, 1981; course work completed prior to Fall of 1981 is excluded from probation calculations.

Probation

A student shall be placed on probation if any one of the following conditions prevail:

- ACADEMIC PROBATION. The student has attempted a minimum of 12 semester units of work and has a gradepoint-average less than a "C" (2.0).
- 2.2 PROGRESS PROBATION. The student has enrolled in a total of at least 12 semester units and the percentage of all units in which a student has enrolled and for which entries of "W" (Withdrawal), "INC" (Incomplete), and "NC" (No Credit) are recorded reaches or exceeds fifty percent.
- 2.3 TRANSFER STUDENT. The student has met the conditions of academic or progress probation at another college within the Los Angeles Community College District.

Units Attempted

"Units Attempted," for purposes of determining probation status only, means all units of credit in the current community college of attendance for which the student is enrolled.

Removal from Probation

A student shall be removed from probation upon meeting the criteria specified in this section.

Academic Probation — A student on academic probation for a grade point deficiency shall be removed from probation when the student's cumulative grade-point-average is 2.0 or higher.

Progress Probation — A student on progress probation because of an excess of units for which entries of No-Credit (NC), Incomplete (INC), and/or Withdrawal (W) are recorded shall be removed from probation when the cumulative percentage of units in this category drops below fifty percent (50%).

Academic Standards for Dismissal

A student shall be subject to dismissal and subsequently be dismissed under the conditions set forth within this section. Dismissal shall be determined based on student course work dating from Fall, 1981; course work completed prior to Fall of 1981 is excluded from dismissal calculations.

Academic Probation

A student who is on academic probation shall be subject to dismissal if the student has earned a cumulative grade-point-average of less than 2.0 in all units attempted in each of 3 consecutive semesters.

A student who is on academic probation and earns a semester gradepoint-average of 2.0 or better shall not be dismissed as long as this ; minimum semester grade-point-average is maintained.

Progress Probation

A student who is on progress probation shall be subject to dismissal if the cumulative percentage of units in which the student has been enrolled for which entries of No-Credit (NC), Incomplete (INC), and/or Withdrawal (W) are recorded in at least 3 consecutive semesters reaches or exceeds fifty percent (50%).

A student who is on progress probation shall not be dismissed after a semester in which the percentage of units in which the student has been enrolled for which entries of "W", "INC" and "NC" are recorded is less than fifry percent (50%).

Appeal of Dismissal

A student who is subject to dismissal may appeal to the appropriate College Dean. Dismissal may be postponed and the student continued on probation if the student shows significant improvement in academic achievement but has not been able to achieve to a level that would meet the requirements for removal from probation.

Dismissal

A student who is subject to dismissal, and who has not been continued on probation through the appeal process, shall be notified by the College President, or designer, of dismissal which will become effective the semester following notification.

Dismissal from any one college in the District shall disqualify a student from admission to any other college in the District.

Readmission After Dismissal

A seudent who has been dismissed may request reinstatement after 2 semesters have elapsed. The student shall submit a written petition requesting readmission to the College in compliance with College procedures. Readmission may be granted, denied, or postponed subject to fulfillment of conditions prescribed by the College.

Student Records and Directory

The Los Angeles Community College District, in compliance with Federal and State law, has established policies and procedures governing student records and the control of personally identifiable information. The Los Angeles Community College District recognizes that student records are a confidential matter between the individual student and the College. At the same time the District has a responsibility to fulfill public information needs (i.e., information about students participating in athletics, announcement of scholarships and awards, etc.). To meet this responsibility the District may release Directory Information unless the student states in writing that he or she does not want it released. The responsibility for carrying out these provisions is charged to the College Records Officer, designated by the chief administrative officer on each campus. The Records Officer may be contacted via the Office of Admissions. Copies of Federal and State laws and District policies and procedures are maintained by the Records Officer and are available for inspection and inquiry.

All student records maintained by the various offices and departments of the College, other than those specifically exempted by law, are open to inspection by the student concerned. The accuracy and appropriateness of the records may be challenged in writing to the Records Officer. A student has the right to receive a copy of his or her record, at a cost not to exceed the cost of reproduction. (Requests for transcripts should be made directly to the Office of Admissions).

No student records, other than Directory Information, will be released without the written consent of the student concerned except as authorized by law. Students who agree to the release of Directory Information will have their name and address released to U.S. Military recruiters in accordance with the provisions of Public Law 104-208 and 104-206. A log of persons and organizations requesting or receiving student record information is maintained by the Records Officer. The log is open to inspection only to the student and the community college official or his or her designee responsible for the maintenance of student records.

Directory Information includes the student's name, city of residence, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student. Directory Information about any student currently attending the College may be released or withheld at the discretion of the Records Officer.

No Directory Information will be released regarding any student who has notified the Records Officer in writing that such information shall not be released.

All inquiries regarding student records, Directory Information, and policies for records access, release, and challenge should be directed to the Records Officer via the Office of Admissions.

Students have the right to file a complaint with the United States Department of Education concerning alleged violations of Federal laws governing student records.

Standards of Student Conduct

A student enrolling in one of the Los Angeles Community Colleges may rightfully expect that the faculty and administrators of the Colleges will maintain an environment in which there is freedom to learn. This requires that there be appropriate conditions and apportunities in the classroom and on the campus. As members of the college community, students should be encouraged to develop the capacity for critical judgment, to engage in the sustained and independent search for truth, and to exercise their rights to free inquiry and free speech in a responsible, non-violent manner. In furtherance of the students' interest in free inquiry and the search for mith, it is also important that students be able to hear the views of non-students and engage in the free exchange of ideas with nonsmidents.

All persons shall respect and obey civil and criminal law, and shall be subject to legal penalties for violation of laws of the city, county, state and nation. All persons shall respect and obey the rules, regulations, and policies of the Los Angeles Community College District. To this end, all students will be asked to sign a statement that they have received the Standards of Conduct and the disciplinary procedures relating to students adopted by the Board of Trustees. All visitors making the of the facilities or grounds of any college of the District will be asked to sign a statement that they have received the Standards of Conduct and the rules relating to campus visitors adopted by the Board of Trustees. Signature will not be a prerequisite to activities on campus. A record will be kept of all persons who use the facilities or grounds of the college.

Conduct in all of the Los Angeles Community Colleges must conform to District and college rules and regulations. Violations of such rules and regulations, may result in disciplinary action depending on the individual's starus as student, faculty, staff or visitor.

Violations of such rules and regulations include but are not limited to the following:

Board Rule 9803.10

Willful Disobedience. Willful disobedience to directions of College officials acring in the performance of their duties.

Board Rule 9803.11

Violation of College Rules and Regulations. Violation of College rules and regulations including those concerning student organizations, the use of College facilities, or the time, place, and manner of public expression or distribution of materials.

Board Rule 9803.12

Dishonesty. Dishonesty, such as cheating, or knowingly furnishing false information to the Colleges.

Board Rule 9803.13

Unauthorized entry. Unauthorized entry to or use of the College facilities.

Board Rule 9803.14

College Documents. Forgery, alteration, or misuse of College documents, records, or identification.

Board Rule 9803.15

Disruption of Classes or college activities. Obstruction or disruption of classes, administration, disciplinary procedures, or authorized College activities.

Board Rule 9803.16

Theft of or Damage of Property. Theft of or damage to property belonging to the College, a member of the College Community, or a campus visitor.

Board Rule 9803.17

Interference with peace of college. The malicious or willful disturbance of the peace or quiet of any of the Los Angeles Community Colleges by loud or unusual noise, or any threat, challenge to fight, fight, or violation of any rules of conduct as set forth in this Article. Any person whose conduct violates this section shall be considered to have interfered with the peaceful conduct of the activities of the college where such acts are committed.

Board Rule 9803.18

Assault or battery. Assault or bottery, abuse, or any threat of force or violence directed toward any member of the College Community or campus visitor engaged in authorized activities.

Board Rule 9803.19

Alcohol and Drugs. Any possession of controlled substances which would constitute a violation of Health and Safety Code section 11350 or Business and Professions Code section 4230, any use of controlled substances the possession of which are prohibited by the same, or any possession or use of alcoholic beverages while on any property owned or used by the District or colleges of the District or while participating in any District or college-sponsored function or field trip.

"Controlled substance", as used in this section, include but are not limited to the following drugs and narcotics:

- opiates, opium and opium derivatives
- mescaline
- hallucinogenic substances
- di peyote
- marijuana
- stimulants and depressants
- cocaine

Board Rule 9803.20

Lethal Weapon. Possession, while on a college campus or at a college-sponsored function, of any object that might be used as a lethal weapon is forbidden to all persons except sworn peace officers, police officers and other governmental employees charged with policing responsibilities.

Board Rule 9803.21

Discriminatory Behavior. Behavior while on a college campus or at a college-sponsored function, inconsistent with the District's non-discrimination policy, which requires that all programs and activities of the Los Angeles Community College District be operated in a manner which is free of discrimination on the basis of race, color, national origin, ancestry, religion. creed, sex, pregnancy, marital status, sexual orientation, age, handicap or veterans status.

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Board Rule 9803.22

Unlawful Assembly. Any assemblage of two or more persons to 1) do an unlawful acr, or 2) do a lawful acr in a violent, bookgrous or tumultuous manner.

Board Rule 9803.23

Conspiring to Perform Illegal Acts. Any agreement between two or more persons to perform illegal acts.

Board Rule 9803.24

Throatening Behavior. A direct or implied expression of intent to inflict physical or mental/emotional harm and/or actions, such as stalking, which a reasonable person would perceive as a threat to personal safety or property. Threats may include verbal statements, written statements, telephone threats or physical threats.

Board Rule 9803.25

Disorderly Conduct. Conduct which may be considered disorderly includes; lewd or indecent attire or behavior that disrupts classes or college activities; breach of the peace of the college, aiding, or inciting another person to breach the peace of college premises or functions.

Board Rule 9803.26

Theft or Abuse of Computer Resources. Theft or abuse of computer resources including but not limited to:

- Unauthorized entry into a file to use, read, or change the contents, or for any other purpose.
- ls. Unauthorized transfer of a file
- Unauthorized use of another individual's identification and password.
- d. Use of computing facilities to interfere with the work of a student faculty member or college official, or to after college or district records.
- e. Use of unlicensed software.
- f. Unauthorized copying of software.

Board Rule 9804

Interference with Classes. Every person who, by physical force, willfully obstructs, or attempts to obstruct, any student or teacher seeking to attend or instruct classes at any of the campuses or facilities owned, controlled or administered by the Board of Trustees of the Los Angeles Community College District, is punishable by a fine not exceeding five hundred dollars (\$500) or imprisonment in a county jasl not exceeding one year, or by both such fine and imprisonment. As used in this section, "physical force" includes, but is not limited to, use of one's person, individually or in concert with others, to impede access to or movement within or otherwise to obstruct the students or teachers of the classes to which the premises are devoted.

Board Rule 9805

Interference with Performance of Duties by Employees. Every person who attempts to cause, or causes, any officer or employee of any of the Los Angeles Community Colleges or any public officer or employee to do or refrain from doing, any act in the performance of his/her duties, by means of a threat to inflict any injury upon any person or property, is guiley of a public offerse.

Board Rule 9805.10

Assault or Abuse of Instructor, Every parent, guardian, or other person who assaults or abuses any instructor employed by the District in the presence or hearing of a community college student or in the presence of other community college personnel or students and at a place which is on District premises or public sidewalks, streets, or other public ways adjacent to school premises, or at some other place where the instructor is required to be in connection with assigned college activities is guilty of a masdemeanue.

Smoking Policy

Smoking is not permitted in any classroom or other enclosed facility.

Drug-Free Campus

Las Angeles Pierce College adheres to, supports, and is in full compliance with requirements that maintain our college as a dragfree institution of higher education.

Standards of Conduct

On September 5, 1990, the Board of Trustees adopted the following standards of conduct:

Students and employees are prohibited from unlawfully possessing, using or distributing illicit drugs and alcohol on district premises, in district vehicles, or as part of any activity of the Los Angeles Community College District.

Additionally, on April 20, 1989, the District Board of Trustees adopted Rule 9803.19, which prohibits:

Alcohol and Drugs

Any possession of controlled substances which would constitute a violation of Health and Safety Code section 11350 or Business and Professions Code section 4230, any use of controlled substances, the possession of which are prohibited by the same or any possession or use of alcoholic beverages while on any property owned or used by the District or colleges of the District or while participating in any District or college-sponsored function or field trip, "Controlled substances," as used in this section, include but are not limited to the following drugs and narcotics:

- a. opiates, opium and opium derivatives
- b. mescaline
- hallucinogenic substances
- d. peyote
- c. manjuana
- f. stimulants and depressants
- g. cocaine

The board's policy on the Drug-Free Workplace, adopted on March 22, 1989 restates these prohibitions.

Legal Sanctions

Federal laws regarding alcohol and illicit drugs allow for fines and/or imprisonment. Other legal problems include the loss of driver's license and limitations of career choices.

Health Risks

Health risks associated with the abuse of controlled substances include malnutrition, damage to various organs, hangovers, blackouts, general fatigue, impaired learning, dependency, disability, and death. Both drugs and alcohol may be damaging to the development of an unborn fetus.

Other Risks

Personal problems include diminished self-esteem, depression, alienation from reality, and thoughts of suicide. Social problems include loss of friends, academic standing, and co- and extra-curricular opportunities, alienation from and abuse of family members, and chronic conflict with authority. Economic problems include loss of job, financial aid eligibility, homes, savings, and other assets.

Student Academic Integrity Policy Statement

The faculty and administration of Los Angeles Pierce College are committed to the belief that honesty and integrity are integral components of the academic process. The College expects students to be honest and ethical at all times in their pursuit of academic goals. Students who violate the code of academic conduct by which the College maintains its academic integrity will be dealt with in a manner reflecting the seriousness of these violations.

- Violations of academic honesty and integrity occur when a student participates in any act in which he/she uses deception or fraud while performing an academic activity. Violations include, but are not limited to, the following:
 - Using study aids such as calculators, tape recorders or notes, when not authorized by the instructor.
 - Cheating on examinations, assignments or experiments (allowing another student to copy one's answers or copying the answers of other students; exchanging information by any means, including verbal exchanges, sign language, hand signals, secret codes, passed notes, creation of a distraction for the purpose of cheating; changing answers on a previously scored test, assignment or experiment; inventing information and/or data.)
 - Allowing another student to assume one's identity in order to fulfill an assignment or take a
 - Submitting for a grade the words, ideas, and/or written work (including laboratory notes and drawings) of another person without giving due credit to that person. This includes purchased papers or papers written by other students.

- Falsifying or attempting to falsify attendance records and/or grade
- Conspiring with other students to commit any of the above behaviors.
- 11. Disciplinary actions against a student who commits any offense against academic honesty and integrity may include:
 - An "F" or a "0" on the examination or assignment.
 - Suspension from the class.
 - An "F" grade in the course (or voluntary withdrawal if the incident occurs prior to the 14th week of the semester.)
 - A record of the student's violation placed in the student's disciplinary file.
 - Restitution charges for damaged or misappropriated property.
 - Disciplinary probation from college activities or services.
 - Suspension from the College.
 - Expulsion from the College.
- III. Student's Right to Appeal

Students have the right to appeal disciplinary actions through the Board of Trustees Discipline procedures. A grade penalty may be contested through the student grievance procedures.

IV. Reporting a Violation

When an alleged incident of academic dishonesty occurs, it is recommended that a faculty member take the following steps to report the incident:

Inform the student and the department chair of the nature of the alleged violation and the impending course of action.

- Complete the Academic Dishonesty Report Form and submit it, along with any related evidence, to the Dean of Student Services. The student should also receive a copy of the form from the instructor within ten (10) working days of the incident.
- The Dean of Student Services will forward information about the incident to the Department Chair and the appropriate Dean of Academic Affairs.
- The Dean of Student Services will investigate the allegations and recommend any appropriate disciplinary actions, beyond actions taken by the faculty members specific to course grading.

V. Faculty Responsibilities

In order to maintain an environment free of academic dishonesty, the following recommendations are made to the faculty regarding their responsibility to uphold academic integrity:

Make every attempt to conduct their classroom in a manner which encourages honorable behavior and learning, to ensure student success and discourage academic dishonesty.

Inform students of the course requirements, grading procedures and expectations of responsible academic conduct.

Inform students of the College policy on Academic Integrity and the potential consequences for violations of this policy.

Inform students of their right to due process should they wish to contest the cheating allegation.

Student Conduct

Counseling, Treatment and Rehabilitation

Students should contact the Student Health Center or the campus Counseling Office for assistance and referrals; employees should contact the Los Angeles Community College District Employee Assistance Program:

Disciplinary Action

Violation of Board Rule 9803.19 shall result in student discipline, imposed in accordance with the Student Discipline Procedures as stated in Board Role 91101. Discipline options include: warning, reprimand, restitution, disciplinary probation, removal by instructor, immediate suspension, suspension, suspension subject to reconsideration, suspension of financial aid, expulsion. Furthermore, institutional policies and practices may impose disciplinary sanctions on students and employees consistent with local, state, and federal law, up to and including expulsion, termination of employment, and referral for prosecution for violations of the standard of conduct.

The Los Angeles Community College District is committed to drugand alcohol-free campuses, and we ask you to share in this commitment and dedication.

Student Right to Know

Los Angeles Pierce College in compliance with the Federal Students Right to Know and Campus Security Act of 1990 provides campus crime statistics in the college schedule of classes.

Family Education Rights and Privacy Act

See Student Records and Directory Information, page 24.

Student Discipline Procedures

Community college districts are required by law to adopt standards of student conduct along with applicable penalties for violation (Education Code Section 66300). The Los Angeles Community College District has complied with this requirement by adopting Board Rule 9803, Standards of Student Conduct. The purpose of this Board Rule is to provide uniform procedures to assure due process when a student is charged with a violation of these standards. All proceedings held in accordance with these procedures shall relate specifically to an alloged violation of the established Standards of Student Conduct.

These provisions do not apply to grievance procedures, student organization councils and courts, or residence determination and other academic and legal requirements for admission and retention. Disciplinary measures may be taken by the College independently of any charges filed through civil or criminal authorities, or both.

Copies of the Student Discipline Procedures are available in the Student Services Office in the Campus Center.

Student Grievance Procedures

The Student Grievance Procedure is to provide a prompt and equitable means for resolving student grievances. The grievance procedure may be initiated by a student or group of students who reasonably believe that he/she/they have been subject to unjust action or denied rights that adversely affect his/her/their status, rights, or privileges as a student. The grievance procedure is detailed in District Administrative Regulation E-55 which is available in the Student Services Office in the Campus Center to any student or applicant to the college.

This grievance procedure does not apply to the challenge process for prerequisites, corequisites, advisories and limitations on enrollment; alleged violations of sexual harassment; actions dealing with student discipline: alleged discrimination on the basis of ethnic group identification, religion, age, sex, color, sexual orientation, physical or mental disability; or an appeal for residency decision; or to eligibility, disqualification or reinstatement of financial aid.

In addition, section 76224 of the California Education Code provides:

"When grades are given for any course of instruction taught in a community college district, the grade given to each student shall be the grade determined by the instructor of the course and the determination of the student's grade by the instructor, in the absence of mistake, fraud, bad faith, or incompetency, shall be final."

The following steps should be taken to begin the grievance procedure:

Stop I Informal Resolution

All parties involved in a potential grievance should be encouraged to seek an informal remedy. The student shall make a reasonable effort to resolve the matter on an informal basis by:

- meeting with the person with whom the student has a grievance.
- meeting with that person's immediate supervisor.
- meeting with the College administrator of the area.
- meeting with the College Ombudsperson to explore student rights and responsibilities, receive assistance with an informal resolution, and submit a written Statement of Grievance.

Step II Formal Resolution

Students unable to resolve their grievance through the informal process may file a "Formal Grievance Hearing Request Form" with the College Ombudsperson. The Ombudsperson will provide students with information about the formal grievance hearing process and their rights and responsibilities in this process.

Students pursuing a formal grievance have the right to be represented by a Student Advocate who will assist students in the formal grievance process.

Additional information and assistance with the Student Grievance Procedure may be obtained from the Student Services Office in the Campus Center.

Ombudsperson

Pursuant to the Student Grievance Procedure, the College Ombudspersons have been appointed by the College President to awast the student in obtaining informal resolution of a grievance.

Student Services & Academic Resources

Student Services

The primary purpose of the office of Student Services is to protect the right of every student to receive a higher education and to ensure that this right will not be infringed upon arbitrarily, capriciously, or in a discriminatory manner, or without due process of law. The Dean of Student Services acrs as an advocate for the students. The second responsibility of the office is to enforce the Code of Student Conduct for the safety and protection of the college community and the preservation of academic integrity.

Student Services are designed to assist students in accomplishing their educational objectives and to provide opportunities for involvement in a number of co-curricular activities. Overall supervision is the responsibility of the Dean of Student Services.

Financial Aid

Goal

The purpose of financial aid is to provide access to post-secondary education for those who otherwise would be usable to afford the cost of education. Through grants, part-time employment, scholarships, and loans, needy students are provided monetary assistance to meet the basic cost of educational expenses.

What is Financial Aid?

Financial aid is monics made available by federal and state governments and private sources in the form of grants, employment, scholarships, and loans. These monies are available to make it possible for students to continue their education beyond high school even if they or their family cannot meet the full costs of the poss-secondary school they choose to attend. The hasis for such programs is the belief that parents have the primary responsibility for assisting their dependents to meet educational costs and that financial aid is available only to fill the gap between a family's resources and the student's yearly academic expenses.

How To Apply

A student must complete a Free Application for Federal Student Aid (FAFSA).

Applications are available in the Financial Aid Office at the College.

Who Can Apply?

To be considered for financial aid, a student must meet the following minimum requirements:

- Students applying for financial aid must have a high school diploma, or have proof of passing a high school equivalency test. Students who do not have a high school diploma must either obtain a General Equivalency Diploma, or a Certificate of California Proficiency, or must take an independently administered test. Tests are administered in the Assessment Center. An appointment to take the test can be made by calling (818) 719-6499. Students must pass all segments of the test to qualify for financial aid. Students who have successfully completed a two-year program (minimum 48 units) that is acceptable for full credit toward a bachelor's degree have the recognized equivalent of a high school diploma.
- Be a U.S. citizen or an eligible non-citizen. An eligible non-citizen is a U.S.permanent resident who has an 1-151, 1-94, or 1-551 (Alien Registration Receipt document) from the Immigration and Naturalization Service verifying that their stay in the U.S. is for other than a temporary purpose, or an 1-688 card for amnesty. (1-688A cards are ineligible for Title IV aid, but are eligible for state aid.)
- Show that they have financial need.
- Be making satisfactory academic progress in a regular course of study.
- Must not be in default on a Federal Perkins Loan (formerly National Direct Student Loan), Federal Stafford or Federal Direct Loan (formerly Guaranteed Student Loan), or Supplemental Loan for Students (SLS) at any school the student has attended.
- Must not owe a refund on a Federal Pell Grant, and Federal Supplemental Educational Opportunity Grant (SEOG) or other Title IV programs.
- Be registered with the Selective Service if required to do so.

When To Apply

Beginning on January 1 preceding the school year in which the student enrolls. Example: Beginning January 1, 1998, for the enrollment period between July 1, 1998 and June 30, 1999.

FINANCIAL AID DEADLINE DATES FOR THE 1998-99 SCHOOL YEAR:

Federal Financial Aid Priority Deadline	May 22, 1999	
State Cal Grant Deadline	March 2, 1998	

Determining Financial Need

The number and amount of financial awards and payments are subject to availability of federal and state aid funds. The type of aid and amount received will be determined by the Financial Aid Office. Financial aid awards are based on demonstrated financial need which is the difference between allowable educational expenses and the total of the parents' expected contribution, and/or the student's own resources. Resources may include, but are not limited to, Veteran's benefits, Department of Rehabilitation benefits, or parents' contribution. Resources are then measured against the institutional student expense budget to determine legitimate financial need. Resources are determined from the financial aid application submitted by the student.

Financial Aid Programs

GRANTS -

Federal Pell Grant

The Federal Pell Grant is a federally funded program. To be eligible, an applicant must be an undergraduate student and demonstrate financial need. Grants range from \$400 to \$3000 per academic year for Los Angeles Community College District students. The amount of the award, as determined by the Pell Grant Program, is in most cases based on prior calendar year income and asset information provided in the financial aid application.

Federal Supplemental Educational Opportunity Grant (SEOG)

The FSEOGs program is a federal undergraduate program designed to supplement other sources of financial aid for students with exceptional need. To be eligible, an applicant must be enrolled in at least 6 units at Pierce College, FSEOG awards range upward from \$100 to \$400 per academic year. FSEOG is available for as long as it takes to complete the first undergraduate degree within the time frame coinciding with the Financial Aid Saturfactory Academic Progress Standards. When students apply for financial aid, they will automatically be considered for this program based on eligibility requirements and packaging policies.

Board of Governor's Waiver (BOG)

The California Community Colleges offers a Board of Governors Enrollment Fee Waiver (BOG) to help low income students with enrollment fees. Students must meet the California residency requirements as determined by the Admission and Records Office. The BOG is a waiver program and does not require repayment. BOG applicants do not have to be enrolled in a specific number of courses and it waives the enrollment fees for the academic year and summer sessions. Please see "Enrollment Fee Assistance" for further information.

State Government Grants

The State of California, through the California Student Aid
Commission, sponsors grant programs for undergraduate students.
To qualify for any of the state-funded grants, a student must be a
California resident and be assending (or plan to attend) an eligible
school or college in California. To apply for these grants, a student
must complete a Free Application for Federal Student Aid (FAESA)
by March 2 prior to the academic year in which the student intends
to enroll.

Cal Grants

A student can receive only one Cal Grant, either Cal Grant B, or C.

■ Cal Grant B

This grant provides a living allowance for entering college freshman who come from low income families. Because this grant is intended for students coming out of high school, CAL GRANT B awards are available only for students who have completed no more than one semester of full-time college work (16 semester units or 24 quarter units). At a community college grants can range from \$500 to \$1410 per academic year. Students must be enrolled in at least 6 units to be eligible.

Cal Grant C

This grant is intended for students who desire to train for specific occupations, vocations or technical careers, but who do not have the financial resources to enter training programs because they are from low to middle income families.

Grants are limited to \$530 at community colleges for programs ranging in length from four months to two years. Students must be enrolled in at least 6 units.

Bureau of Indian Affairs (BIA) Grants

BIA Grants provide money to help defray the costs of education for students of American Indian heritage. Students may apply if they:

- are at least one-quarter American Indian, Eskimo, or Aleut, as certified by the BIA and/or tribal group serviced by the BIA;
- 2. have financial aid eligibility and scholastic ability;
- are working toward an undergraduate or graduate degree;
- 4. have completed all of the requirements.

Amounts of the grants vary according to individual agencies of the BIA. The BIA Grant is advantageous because, unlike other grants, it may be used to replace the loan or work portion of the financial aid package.

Applications are available through the U.S. Department of Interior, Bureau of Indian Affairs, Education Branch, 2800 Cottage Avenue, Sacraniento, CA, 95813.

EMPLOYMENT -

Federal Work Study Program (FWS)

The FWS program is a Federal program which enables a student to earn part of his or her financial aid award through on/off campus employment. The work and pay rate varies with the student's course of study and experience.

LOANS (Monies which must be repaid)

Federal Perkins Loan

(Formerly National Direct Student Loan (NDSL)

This loan is a low interest loan (5%) repayment program to help students with exceptional financial need meet their educational expenses. To be eligible, an applicant must be enrolled in at least 6 units at Pierce College. A Perkins Loan is also available to students who hold a Bachelor's Degree as long as they haven't previously borrowed the program maximum.

Repayment of the Loan: Repayment status begins nine months after the borrower graduates, withdraws, or drops below six units.

Federal Direct Student Loans

To apply, a student must first complete a Free Application for Federal Student Aid (FAFSA) to determine eligibility for a Pell Grant.

Students must be enrolled in at least 6 units at Pierce College for the entire loan period. Repayment begins six months after a student ceases being a half-time student, withdraws, or graduates from school.

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Loan amounts vary depending on whether a student is a dependent or independent student and a first year student (completed less than 30 semester units at the beginning of the loan period) or a second year student (completed 30 or more units at the beginning of the Ioan period).

There are two types of loans available under the loan program:

- (1) Subsidized loans the federal government pays the interest on the loan until students begin repayment and during authorized periods of deferment thereafter;
- (2) Unsubsidized loans students will be charged interest from the time the loan is disbursed. Students can choose to pay the interest or allow it to accumulate. Students can borrow both a subsidized and unsubsidized loan in the same academic year depending upon eligibility.

Under the Federal Direct Loan Program the federal government makes loans directly to students through the school the student attends.

Students should be aware that the school they are attending can refuse to certify a loan application or can certify a loan for an amount less than the student would otherwise be eligible for, if the school documents the reason for its action and explains the reasons to the student in writing. The school's decision is FINAL and cannot be appealed to the U.S. Department of Education.

Refer to the U.S. Department of Education Student Guide for 1998-99, available in the College Financial Aid Office, for specific annual and aggregate loan amounts.

Standards for Satisfactory Academic Progress for Financial Aid Programs

General Information

In accordance with the Higher Education Act of 1965, as amended, the Los Angeles Community College District (hereinafter referred to as LACCD) established the following Standards of Academic Progress. These standards apply to all students who apply for and receive financial aid from the programs listed below.

- Federal Pell Grant
- Federal Supplemental Educational Opportunity Grant (FSEOG)
- Federal Work Study (FWS)
- Federal Perkins Loan
- Federal Direct Student Loan (FDSL)
- Cal Grant B and C

Professional Judgement may be exercised in applying these standards in accordance with Section 479A of the Higher Education Act of 1965 As Amended Through June 1994.

Satisfactory Academic Progress Standards are reasonable if they are the same or stricter than the institution's standards for a student entrolled in the same educational program who is not receiving amittance under Title IV Federal Financial Aid Programs.

Previous coursework earned at any college within the LACCD will be reviewed for compliance with the standards put forth in this policy.

Academic Renewal and Repetitions.

For policies and procedures related to Satisfactory Academic Progress such as Academic Renewal and Course Repetitions, etc., please refer to the school Academic Policy Section of the College Catalog.

Eligibility

- After eligibility is established, subsequent satisfactory academic progress review will consider academic performance at all colleges throughout the LACCD.
- For students aided under a consortium agreement with colleges outside the LACCD, consortium classes will be included during satisfactory progress review by the home school (the college that processes the student's aid).

General Requirements

Students receiving financial aid must be enrolled in an eligible program to receive financial aid. An eligible program is defined as:

- An educational program that leads to an associate, bachelor's, professional, or graduate degree, or
- An educational program which is at least a two-academic-year program that is acceptable for full credit toward a bachelor's degree, or
- 3. An educational program which is at least a one-academic-year training program that leads to a certificate, degree, or other recognized educational credential and that prepares a student for gainful employment in a recognized occupation.

Satisfactory Academic Progress Standards

Maintenance of a 2.0 semester and cumulative GPA.

Completion of fewer than 72 units at the beginning of the academic year.

Entries recorded as Incomplete (INC), No Credit (NCR). Withdrawl (W), In Progress (IP), and/or Report Delayed (RD), must be less than 50% of units attempted for the previous semester and cumulatively [completion of the number of units for which the student was paid, minus a 3-unit leeway (see Determining Enrollment Status below)],

Financial Aid Probation And Disqualification

Academic progress for financial aid students will be determined prior to the first disbursement of aid for each academic semester.

- Students whose academic progress is substandard in their most recent prior semester will be placed on probation.
- A student who failed to meet the standards at any college in the LACCD and has been placed on probation, is on probation at all colleges within the LACCD.
- Students with 50% or more units of Non Credits, Withdrawals, or Incompletes in the most recent semester will be placed on probation.
- Students on probation who have made measurable. improvement, but who have failed to achieve the minimum standards of satisfactory progress, may be granted additional aided probationary semesters.

Disqualification

Applicants with prior academic work will be subject to disqualification if their last two semesters completed are below satisfactory academic standards.

- Students on probation will be subject to disqualification if they fail to meer satisfactory academic progress standards in their probationary semester.
- c) Financial aid recipients who do not achieve a cumulative GPA of 2.0 or better by the end of the second academic year must be disqualified. The second academic year is defined as a period of time and not the level of enrollment.
- d) Seudents whose appeal for financial aid has been denied will remain disqualified until satisfactory academic standards are mer.
- e) Students who are disqualified from financial aid will be notified by mail of the reason(s) for disqualification and procedure for appeal.

Determining Enrollment Status For Financial Aid Recipients

In determining whether or nor a student is making satisfactory progress, the student's enrollment status is defined as follows:

- If the student receives a full-time Pell Frant or Cal Grant, the student's enrollment status is considered full-time (12 or more units for that semester).
- If the student receives a 3/4 time Pell Grant or Cal Grant, the student's enrollment status is considered 3/4 time (9 to 11 1/2 units for that semester).
- If a student receives a 1/2 time Pell Grant or Cal Grant, the student's entellment status is considered 1/2 time (6 to 8 1/2 units for that semester).
- If a student only receives a loan, the student must maintain a minimum enrollment of 1/2 time (6 units per semester) for the entire loan period.
- If the student neceives only Federal Work Study, the student most maintain enrollment in a minimum of one unit per semester while employed.

By the end of each academic year, financial aid students must complete the units for which they received aid minus a 3-unit leeway.

- Full-time students, who are responsible for 24 units per academic year must complete at least 21 units per year.
- Three-quarter time students, who are responsible for 18 units per academic year, must complete at least 15 units per year.
- Half-time students, who are responsible for 12 units per academic year, must complete at least 9 units per year.
- Less than 1/2 time students are responsible for completion of all units enrolled in per semester when the first disbursement was made. The 3-unit leeway does not apply to these students.

In the determination of enrollment status, it is permissible for a student to count units being taken at another college.

- Students who are taking classes at more than one college within the LACCD, are automatically considered to be taking classes under Board Rule #8700.
- 2. Students who are taking classes at a college within the LACCD and who are also enrolled at a college outside of the District must request a written consurrium agreement be made between the schools with one school designated as the primary school (the one from which the student receives financial aid) and the other school as the secondary school.
- If the student is enrolled at a LACCD member college and a four (4) year school, the four year school must be the primary school.

Maximum Time Length

Students attending for the purpose of obtaining an Associate of Arts Degree (AA), an Associate of science Degree (AS), a certificate, or completion of requirements for transfer to a four year college, are allowed 72 units in which to complete their objective.

- Arrending full time (12 unies or more), a student is expected to complete his/her objective in three years.
- Attending part time (less than 12 units), a student is expected to complete his/her objective in six years.
- Exceptions will be made only when the requirements of a student's objective cause the student to exceed the maximum time limit.

Short Length Certificate Programs

- Some certificate objectives at the Los Angeles Community Colleges may be completed in less time than that required for the Associate of Arts, Associate of Science and Transfer objectives.
- The following table shows the normal completion time and maximum time for certificate programs of varying length:

Units required for the Certificate Program	Normal Length	Maximum Length
10 to 24	2 semesters	3 semesters
25 to 36	3 semesters	4 semesters
37 to 48	A semesters	5 semesters

To be eligible for financial aid, a program must be at least 6 months in length. Students enrolled in a certificate program may continue to qualify for financial aid up to 72 units, 6 full-time semesters, or the equivalent, if they are planning to obtain an A.A. or A.S. degree or to transfer to a four year school in addition to obtaining the certificate.

Grading Policy, Course Limitations

In the application of these standards for progress, the Financial Aid Office will follow the policies of the college as described in the college catalog. In particular:

- In calculating units completed, only those classes passed with an A. B. C. D or CR will be counted as completed classes.
- Classes in which the student receives grades of F. NCR, INC., RD, IP, and W will not be counted as completed classes.
- The student may not receive credit for a class for which he/she previously received an A. B. C. or CR unless the catalog specifically says that the class may be repeated for credit.

Summer Financial Aid

Pell Grants will be awarded and paid during Summer 1999 session(s) as the trailer session for the 1998-99 award year.

Campus-Based aid will be awarded and paid during Summer 1998 session(s) as the header session for the 1998-99 award year.

All satisfactory academic progress standards will be applied to the Summer session(s) as they are applied to the Jull and Spring semesters. Students will be responsible for completion of all units enrolled in when the first dishursement is made.

Note: The 3-unit leeway does not apply to students enrolled during Summer session(s).

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Appeal Procedure For Reinstatement Of Financial Aid

Sendents who have been disqualified from receiving financial aid may appeal for reinstatement by submitting a written appeal to the Financial Aid Office in compliance with the procedure outlined in the formal letter of disqualification.

Reinstatement may be granted, denied or postponed subject to fulfillment of specific conditions listed below.

- The death of a relative of the student.
- 2. An injury or illness of the student.
- Other special circumstances.

If denied, students may re-appeal after completion of one or more semesters with a 2.0 GPA or better.

Fraud

A spadent who attempts to obtain financial aid by fraud, will be suspended from financial aid for unsatisfactory conduct,

The college may report such instances to local law enforcement mencies, to the California Student Aid Commission and/or to the Federal Government.

Restitution of any financial aid received in such manner will be required.

Note: The Board of Fenancial Anistance Program (BEAP), established to bely students pay the California Community College enrollment fee, is specifically amissed from the above list. An eligible student enrolled at me of the nine Los Angeles Community College District campuses who applies for the enrollment for will be granted the assistance irrespective of hither status under the academic provisions.

Services and Resources

Business Office

All student finances are handled through the Business Office. Services mailable are: collection of fees for enrollment, non-resident, audit. parking, and ASO. The Business Office also processes child development payments, RTD passes, stamps and theater tickets. Grant checks are distributed by this office and repayment collected for returned checks.

Child Development Center Child Care

The Child Development Center provides care and innovative programs for children, ages 2.9 to 5.9 years, whose parents are entolled in 6 units or more at Pierce. The Center is open Monday through Friday from 8 a.m. until 4 p.m. Children may be enrolled in an all-day session 8 a.m.-3 or 4 p.m.; a morning session 8 a.m.-12 p.m.: or an afternoon session 12 p.m.-3 or 4 p.m. A nominal fee is charged and prorated on the basis of family size and income. Some subsidized care is also available.

The Center is staffed by professional teachers specifically trained in Early Childhood Education. The Center offers opportunities for parents to better understand their child's behavior. The Center is also an instructional lab site for observers and practicum students from Pierce and other colleges.

The Center is located on the west side of Winnetka Avenue, just north of Victory Boulevard. For information and an application contact the Child Development Center Office, (818) 719-6494.

College Safety and Police Services

Community college police officers have peace officer authority. pursuant to California Penal Code 830.32a and Education Code 72330. They receive the identical training as a municipal police officer or county deputy sheriff and they have the same authority on or about the campus as a municipal police officer or county deputy sheriff. The College Police are responsible for reporting and investigating crimes, issuing traffic citations, responding to medical emergencies, traffic accidents and fire emergencies, as well as other incidents that require police assistance. Please report traffic accidents. injuries, thefts, items lost and found, or any unusual circumstances to the College Police. They are located in College Police 5300, adjacent to the Men's Gym. The Police are on campus twenty-four hours a day, seven days a week.

All lost and found items shall be turned in to the police. Students losing items may claim them at this office. Please report any lost or stolen stems.

Parking lots are parrolled for your protection by the Student Patrol and College Police. Please lock vehicle and do not leave anything of value visible. Valuables should be locked in the trunk or left with College Police.

Students will need to seek outside assistance for any vehicle problems such as, keys locked in vehicles, out of gas, and dead batteries.

The College Police issue citations for parking illegally and for traffic violations. Please observe all Parking and Traffic Regulations as posted. Citations are a minimum of \$25. A citation for parking in a handicapped zone without a permit is \$330. All citations are payable to L. A. Pierce College. Also, be aware of tow away zones. All unpaid citations are sent to the D.M.V. for Registration hold; penalties are added. Be sure to read the current schedule of classes for specific parking and safety rules.

Dogs are not allowed on campus with the exception of guide dogs for the blind. Skatchoards, roller skates, and toller blades are not permitted on campus.

Counseling Services

The Counseling Department assists students in making decisions regarding educational, career, and personal concerns. Counseling is available for Educational and Career Planning, and personal and crisis problem situations. These services are provided by professional counselors through individual and group counseling and advisement. short-term classes, workshops, reference materials, referrals to resources on or off campus, and through the use of resting and referral to reference materials. Counseling can assist individuals to assess interests, abilities, and values; to set goals; to make plans to accomplish the goals; and to address personal problems that impede those plans.

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Educational Planning and Counseling

Counselors assist students in serring educational goals, exploring alternatives, making decisions regarding their academic programs and understanding the effects of having made these decisions. Short-term courses are also offered to help students develop skills in such areas as decision making and personal development. Counselors are located in the main Counseling Office in the Administration Building. Appointments may be made in the Counseling Office.

Faculty advisors, located in most departments, will also help students with academic and career information related to courses and programs in the academic area of the advisor.

Personal Counseling/Help Center

Personal counseling may be obtained from counselors in the Counseling Office or at the Help Center. The Help Center, staffed by counselors, is available to students who feel a need for short-term help with personal problems in a crisis situation. Assistance may be provided through a limited number of individual counseling sessions and referrals. For an appointment go to the Help Center located in the Administration Building, ADM 1002, next to the Counseling Office or call (818) 710-4175. (818) 719-6440.

Career/Transfer Center

The Career Services provided are individual career counseling appointments, personal development clauses and workshops in career planning and job socking skills for those persons undecided about their career or educational goals. A library of occupational information, including a computerized career information system, is available. The Career Center is located in the Administration Building.

The Transfer Services provide students with the opportunity to personally meet and discuss transfer plans with university representatives. Information on admissions, financial aid and scholarships, housing, and university campus tours is available. Students may obtain applications for California State University. University of California, and other colleges at appropriate times.

Vocational Rehabilitation Services

Students who have a physical, emotional, or other disability which handicaps them vocationally may be eligible for the services of the State Department of Rebabilitation.

These services include vocational counseling and guidance, training fineliading payment of college costs), and job placement. Under certain circumstances students may also qualify for help with medical needs, living expenses and transportation and other services.

For further information appointments may be made with a counselor in the Special Services Office.

Veterans Advisement

Veterans Advisement is available to all veterans and veteran dependents who desire to use their benefits. The Veterans Office is in BUNG 0342.

Study Abroad Program

Los Angeles Community Colleges offer a unique opportunity to study in a foreign country while earning college credit. Students interested in obtaining further information abould contact the Cateer/Transfer Center.

Disabled Students Programs and Services

Students with physical or learning disabilities are offered a wide range of services including registration, special parking and counseling. These services are also available to students with a temporary disability such as injury or post-operative recuperations. All services and equipment are provided free of charge to any qualifying disabled student.

Deaf and learning disabled students are offered additional services including special classes, tutoring and computer-assisted instruction.

The Disabled Students Office is located in the Administration Building, room 1024. The Office is open Monday through Friday from 7:30 a.m. until 4:30 p.m.

The following special services are offered:

- Interpreter services for the deaf
- Notetaking services
- Mobility assistance
- Specialized tuttoring
- Registration assistance
- Special parking areas
- On-campus transportation
- Academic and career guidance
- Special equipment including
- Talking calculator
- Print magnifier
- Specially adapted computers

Extended Opportunity Programs and Services

Extended Opportunity Programs and Services (EOPS) is a statefunded comprehensive support system which recruits and assists qualified low-income students with educational disadvantages. EOPS provides academic counseling, career exploration, tutoring, priority registration, book grants, and workshops aimed at helping students succeed in college. Participants must be full-time students.

EOPS is located in BUNG 0340. Office hours are 8 a.m. to 4 p.m., Monday through Friday.

Food Services

Cafeteria

The Cafeteria Building, which is located next to the Campus Center, has cafeteria service in the Grill Room featuring breakfasts and hot grilled bunch items. The main line Dining Room serves hot entrees, a sandwich deli, soup, fresh salad bar, and pastry. Cafeteria Hours: 6:45 a.m. to 9 p.m., Monday through Thursday and 6:45 a.m. to 2:15 p.m. on Friday.

Vending Machines

Located at various locations on campus. Serving hor and cold drinks, vandwiches, fruit and other miscellaneous mack items. Change machines are available in various vending machine locations.

Information or problems with any or all services, call (818) 719-6412 from 7 a.m. to 2 p.m., Monday through Friday.

GAIN/CalWorks Program

Since 1989, Pierce College has provided basic skills instruction and vocational training programs for students receiving Aid to Families with Dependent Children (AFDC) through the GAIN/CalWorks Program. As our community has changed, our program has evolved and expanded to include all persons eligible for or receiving Temporary Assistance to Needy Families (TANF).

Our vocational skills/concurrent enrollment programs are designed for students whose main objective is short-term training with an immediate employment focus. We offer the following services to eligible students in high demand occupational studies programs:

- Instructional and vocational assessment
- Job preparation/job search assistance
- Tutoring and basic skills instruction
- Academic and career counseling
- Pre- and Post-employment services
- Special support services for students with children

Office hours are Monday through Friday, 8:30 - 4:30 p.m. Phone: (818) 719-6400. Offices are located in the Learning Center building, 100m 1602.

Health Services

A variety of health services are available at the Student Health Center located in the Campus Center. The Center provides first aid, crinis intervention, health assessment, health counseling, health referrals, and health information as well as the diagnosis and treatment of most acute illnesses. Students are welcome to drop in or call ext. 270 for an appointment to see a physician, the college nurse, or a nurse practitioner. The off-campus phone number is (818)710-4270

The Student Health Center can provide low cost family planning services, extensive gynecological care, and the testing for, diagnosis, and treatment of sexually transmitted diseases. Most bacterial infections can be treated with low cost antibiotics that the Health Center can supply. Free condoms and over-the-counter medications are also provided on an as needed basis.

Consultation and/or referral regarding personal and emotional problems affecting a student's educational progress are available through the Student Health Center or the Help Center in the Counseling Office.

It is strongly urged that an identifying emblem he worn by persons with any medical problems or allergies. Students with known physical impairments must limit enrollment to courses in which they may participate with safety.

Students are encouraged to obtain a medical insurance plan. Literature on optional Health Insurance is available at the Student Health Center, along with a dental plan. Applications for plans may be obtained in the Student Health Center.

Students who need medical assistance when the Student Health Center is closed should contact the Campus Police at ext. 450.

Students involved in athletics who require a sports physical must be seen by a physician contracted with the College for that purpose. The Student Health Center is not allowed to perform sports physicals.

Help Center

The Help Center provides personal and crisis counseling for students whose problems are interfering with their academic, career, and/or social functioning. This service is provided by designated counselors in Counseling, Special Services, and EOPS.

The Center helps students with problems of depression, anxiety, suicidal thoughts, relationship issues, sexual abuse, and other problems. When appropriate, referrals are made to private clinicians, community mental health facilities, the Health Office, or other community agencies.

The Help Center is located in the Administration Building, ADM 1002, next to the Counseling Center. Office hours: 9:00 a.m. - 3:00 p.m., Monday, Wednesday, and Thursday, 9:00 a.m. - 12:00 noon, Friday. For appointments, please call (818)710-4175 or drop by the Center.

International Students Program

International education and the education of students from abroad is a major undertaking of the Los Angeles Community Colleges. Through the exchange of teachers and students, the District seeks to foster mutual respect and understanding for the diversity of cultures, languages, and ideas of the people of the world. The college extends a warm welcome to all students regardless of race, language, sex, nationality, religion, or political ideology.

All students coming from abroad need to contact the International Students Office as soon as they decide to study at Pierce College. Admission requirements for international students are different from those for resident students, students are encouraged to call or write for the application package.

The address is as follows:

International Students Office

Los Angeles Pierce College 6201 Winnetka Avenue Woodland Hills, CA 91371

A counselor is available to assist international students with academic, career, personal, or immigration issues. A calendar of social activities is planned for international students each semester which includes theater parties, camping trips, visits to local points of interest, holiday parties, and regular "rap" sessions designed to encourage the discussion of a wide range of issues and concerns.

Although the college does not have any dormitories, students can receive assistance in locating suitable housing through the International Students Office.

Instructional Media Center

The Instructional Media Center is operated by Information Services and is located on the ground floor of the Library. Utilizing cassette tapes, students may receive supplemental instruction in the areas of social science, languages (English, speech, and foreign languages), music, science, drama, office administration, history, accounting, economics, Cooperative Work Experience Education, and lectures in various other disciplines. In addition, instructional materials such as filmstrips, records, slide-tape programs and video-tapes are available for faculty. The Instructional Media Center offers the service of duplicating instruction-related casettes for home use for faculty, subject to Media Center regulations. Students are encouraged to supplement their study in the various subject fields by utilizing the services of the Media Center.

The Learning Center

The Learning Center provides services to improve student productivity in the classroom. The services include individual perr tutoring in a variety of disciplines. Small group workshops are given in writing and ESL Conversation.

Computers are available for open access class related activities at several locations on campus. There is a computer anoted instruction lab as well as word processing. Students are encouraged to visit The Learning Center to take advantage of the services offered. The Learning Center is located in Room 1613. The services are free to Pierce College students. The Learning Center is open Monday through Thursday 9:00 a.m. to 9:00 p.m., and Friday 9:00 a.m. to 2:00 p.m.

Learning Disabilities Program

The Learning Disabilities Program, located in the Disabled Students Office, assists college students with the essential tools needed for success in their classes. Many students need help in basic reading, spelling and arithmetic skills as well at individualized special techniques for the realization of their full potential academically or vocationally.

The student's problems are diagnosed, and an individual program is designed to meet their needs. Students advance at their own rate using a large variety of instructional materials. Special classes and ratorial sessions provide assistance. Specialized tutoring its regular classes can be provided by arranging for individualized adaptations with instructors.

ROTC

Through arrangements with local universities, qualified Pierce College students may participate in the Air Force Reserve Officer Training Corps (AFROTC). Many scholarships are available, and successful completion of as few as four sensesters of academic classes and leadership laboratories may lead to a commission as a second lieutenant in the U.S. Air Force. For carollment information, relephone Loyola Marymount University (LMU) at (310) 338-2770, the University of California, Los Angeles (UCLA) at (310) 825-1742, or the University of Southern California (USC) at (213) 740-2670

Scholarships

Bosh on-campus and off-campus scholarship announcements are posted in the EOPS Office, BUNG 0340. Applications are available to qualified students. New scholarship announcements are received weekly. Deadlines for scholarships are announced in the Pierce Bulletin.

Student Employment and Housing Services (The Job Center)

Employment

Students seeking employment are encouraged to use the student employment service (job placement). The office is well known in the business community and employers are constantly placing job orders for skilled and non-skilled employment opportunities in diverse occupational fields. Referrals are available to all enrolled students, graduates, and the community for part-time, full-time, temporary and summer work. The Employment Development Department has a satellite office at this location.

Housing

The office maintains a listing of room and board opportunities in nearby private homes in exchange for work or for rent, as well as sharing situations with other students. Occasionally, houses and guest houses are available. The college does not inspect accommodations which are listed and assumes no responsibility.

Location

The Student Employment Service is located in BUNG 0371.

Student Store

Pierce College's Student Store is located in the center of the campus next to the Library. The store is a meeting place and an adjunct to both the academic and social life of the campus. It is an academically oriented resource, where the need for and interest in reading and study engendered in the classroom can be nurtured and reinforced. The store is also a social focal point on the campus, offering many poods and services required by the college community.

Pierce College's Student Store is owned and operated by the Los Angeles Community College District, under policies set down by the Board of Trustees.

The purpose of Pierce College's Student Store is to provide for the sale of book and supply requirements connected with the academic programs of the college. The Student Store is operated on sound business principles in the anticipation that its income will cover both its operating expenses and its attributable capital development costs.

Veterans Services

Veterans applying for educational benefits are responsible for knowing the VA eligibility requirements and regulations. In addition, they must meet the school admission requirements and supply the college with copies of official transcripts from previous training. Applications for VA educational benefits, as well as additional information, may be obtained from the Veterans Administration or the staff in our Veterans Office. The VA requires that students request the school's veterans counselor to determine transferable credits before starting their second semester at Pierce

Programs at this college are approved for payment by the Veterans Administration through the Council of Private Postsecondary Education. To receive payment when repeating a class, students must obrain approval from the school's veterany counselor.

Educational Benefits

Vererans attending under the provisions of Public Law 94-502 receive payments at the prevailing rates. A copy of the law is posted in the Veterans Office. Checks received during the month cover the previous month's attendance.

Overpayment to Veterans

The Veterans Administration holds veterans liable for overpayment received for reasons including failure to notify the VA and the school's Veterans Office when they drop a class or receive an incomplete grade. Veteranx who receive overpayment should promptly notify the VA and the school's Veterans Office in BUNG 0327. The VA allows only 30 days from the start of the semester for veterans collecting benefits to add or drop classes.

Credit for Military Service

Merce College grants up to six units of credit for military service. Credit will also be granted for some classes at special military schools. Granting of credit for elective units is based on the veteran's compliance with the following guidelines:

- Carrent enrollment.
- Having served at least 181 days in the armed services.
- Presenting a copy of military separation paper (DD214) when petitioning for elective credit.

Tutoring

Veterans may apply to the Veterans Administration for trimbursement of tutorial services. Such reimbursement is limited to 12 months, and based on approval arranged through the Veterans Office.

Student Activities

Co-Curricular Activities

Co-Curricular or extra class activities are intended to provide students with the opportunity to be better prepared to fulfill the duties of citizenship in a democratic society and enrich their educational and personal development. This may be accomplished through extra class cultural activities, volunteer programs related to the instructional program, community-related affairs, athletics, and student government. Students learning to work with groups will develop skills to prepare them for cooperative and meaningful associations in both occupational and personal pursuits.

The development of a student activity program is a vital portion of the obligations that both faculty and administrators assume for students in any American college community. At Pierce, student activities are an integral part of the educational program.

Intercollegiate Athletics and Eligibility

Intercollegiate Athletics are an integral part of the total college program. Men and women conspete in the Western States Conference in all sports. The sports offered for men are baseball, football, swimming, tennis, volleyball and water polo. The sports offered for women are softball, swimming, tennis, volleyball, and buskerball.

Eligibility

All questions pertaining to athletic eligibility should be directed to the Athletic Director at (818) 719-6421.

Publications

College Newspaper

The college newspaper is published as a learning experience, offered under the college journalism instructional program. The editorial and advertising materials published by the newspaper, including any opinions expressed, are the responsibility of the student newspaper staff. Under appropriate state and federal court decisions these materials are free from prior restraint by virtue of the First. Amendment to the United States Constitution. Accordingly, materials published, including any opinions expressed, should not be interpreted as the position of the Los Angeles Community College District, the College, or any District or College officer or employee.

Journalism students produce the award-winning college newspaper. the Roundup, which is published weekly and distributed free to all students. This newspaper contains news of the entire college, both day and evening. Also, journalism students produce a magazine, The Bull, which is distributed free to all students.

Student Government

The Associate Dean of Student Affairs represents the Faculty and the Administration of the college as sponsor and advisor of the Associated Student Organization. For information on becoming involved, please visit the Student Services Office in the Campus Center.

Associated Students Organization (ASO)

The students of Pierce manage their own affairs through the organization known as the Associated Students Organization (A.S.O.). Each student who enrolls at the college may become a member. The Associated Students Organization provides a framework for all college student activities. Through active participation in such activities as student government, clubs. publication, athletics, and special events of the college, the student renders service, increases social and cultural awareness, improves leadership abilities, and creates a close association with other students. Students are encouraged to serve on campus and A.S.O. committees. For information visit the Student Services Office in the Campus Center.

Qualifications for ASO Officers (Administrative Regulation E-22)

Administrative Regulation E-22 pertains to elected Associated Students Organization (ASO) officers, officers appointed to elected positions and heads of ASO Standing Committees.

Administrative Regulation E-22 does not apply to clubs, club representatives, ASO special committees and all-college committees, and student trustee.

Administrative Regulation E-22

A student cannot be a candidate for ASO office if he or she has served more than four semesters in a student government elected and/or appointed office, or in any office or position where he or she voted on the expenditure of ASO funds in any college.

- An officer may serve a fifth semester if he or she is eligible at the rime of assuming office (e.g., has served three semesters and is a candidate for an office with a one-year term).
- Tim weeks or more in office or service will be counted as a full

All students running for office must be paid members in good standing in the Associated Students Organization at the college where the election is being held. A candidate may run for only one campus office on the same ballon,

The candidate/officer must have a cumulative and current GPA of at least 2.0 at the college/district during the semesters in which the student government office is applied for and held. Current means the ment recently completed semester.

The candidate/officer must not be on progress probation. Progress probation is defined as having recorded grade entries of "W" (Wishdrawal), "INC." (Incomplete), "NC." (No Credit) for fifty percent or more of all the units in which a student has enrolled.

The candidate/officer must be actively entolled, strending and successfully completing classes in a minimum of nine (9) units for students enrolled exclusively in day classes, or enrolled in a combination of day and evening classes, and six (6) units for students enrolled exclusively in evening or Saturday classes at the college where the office is sought or held. Candidates may be enrolled in more than one college in the District, but the candidate must be currently enrolled in a minimum of six (6) units at the college where the candidate is seeking office. Officers must be continuously enrolled in a minimum of six (6) units at the college where the office is held.

Note: Individual colleges, in their ASO constitutions, may set forth standards for office which are higher than those listed above. Candidates/Officers with disabilities may request special accommodations.

Student Clubs & Organizations

Approximately 30 campus clubs and organizations have open membership to students who are members of the Associated Students Organization. Service clubs, special interest clubs, departmentrelated organizations, and religious clubs offer a variety of opportunities for student involvement.

The club program is coordinated by the Associated Students Organization through the Club Council. Clubs which have been active at Pierce during the past semesters include: Alpha Gamma Sigma; Animal Health Technology; Armenian Students Association: Hible Fellowship Club; California Nursing Students Association; Club Litino United for Education; Dance Club; International Sendents Club; Kabataang Filipino; Muslim Sendent Association; Parents Club; Phi Thera Kappa; Pierce Hillel; Pre-Vet Club; Sign. Language Club; and United African-American Student Association.

Information on clubs is available in the Associated Students Office or Student Services Office in the Campus Center.

Student Trustee Election Procedure

The Los Angeles Community College District conducts an election annually whereby each student in the District has an opportunity to he involved in the process of selecting a student representative to the Les Angeles Community College district Board of Trustees.

The process contained in Regulation E-78 provides for a thorough evaluation of the candidates' qualifications and insures an equal apportunity for any individual from any District college campus to seek the position of student representative to the Los Angeles Community College District Board of Trustees.

- In accordance with existing law, candidates for Student Trustee
- 2 Be residents of the District.
- Be currently enrolled at a District college.
- Be enrolled in at least 9 units for day students and 6 units for evening students.
- Plan to continue as a District resident and enroll as a District student through the one-year term of office,
- Have completed a minimum of 12 units and a maximum of 60 units of college work.

For further information, contact the Student Services Office in the Campus Center.

Associate Degree **Programs**

Associate Degree Programs

Graduation Requirements

The Board of Governors of the California Community Colleges has authorized the Los Angeles Community College District Board of Trustees to confer the degrees of Associate in Arts and Associate in Science.

The awarding of an Associate Degree symbolizes a successful attempt on the part of the College to lead students through patterns of leatning experiences designed to develop certain capabilities and insights. Among these are the ability to think and to communicate dearly and effectively both orally and in writing; to use mathematics; to understand the modes of inquiry of the major disciplines; to be aware of other cultures and times; to achieve insights gained through experience in thinking about ethical problems; and to develop the capacity for self-understanding. In addition to these accomplishments, the student should possess sufficient depth in some field of knowledge to contribute to lifetime interest.

Continuing students should follow the graduation requirements in the catalog in effect at the time of their initial enrollment. A continuing student is one who has completed a minimum of one course per calendar year.

Students who interrupt their attendance, except as noted above, become subject to any new requirements which are in effect at the time they re-enroll.

Unit Requirement 60 to 64 units of course credit in selected degree applicable courses. One credit hour of community college work is approximately three hours of recitation, study, or laboratory work per week throughout a term of 16 weeks.

Scholarship Requirement: A "C" (2.0) grade average or better in all degree applicable courses attempted.

Competency Requirement Students must demonstrate competence in reading, in written expression, and in mathematics. The following courses and examinations are approved to meet the competency requirement for the A.A./A.S. Degree as defined in Board Rule 6201.12:

- A. The competency requirement in reading and written expression for the associate degree may be met by:
 - Completion of "one" of the following courses (or its equivalent at another college) with a grade of "C" or better.
 - English 28
 - English 31
 - English 101
 - Journalism 101
 - Competency may be met through credit-by-examination. as determined by the individual colleges.

- B. The competency requirement in mathematics may be met by:
 - Completion of one of the following courses (or its equivalent at another college) with a grade of "C" or better:
 - Mathematics 113 & 114, 115, 116, 119, 146, 147 or any higher math course with a prerequisite of Math 115 or its equivalent.
 - Electronics 10, 12, 14;
 - Gen Engr Tech 121;
 - Engr Tech 49, 50, 51;
 - Statistics 1.
 - May also be met by achieving a satisfactory score on the Math Competency Exam i.e. 15 or higher.

Residence Requirement Completion of at least 12 degree-applicable units of work in residence and attendance at the College during the semester in which the graduation requirements are completed. Exceptions may be made under special circumstances.

Course Requirements Students who are majoring in programs of study for which 18-35 units are required in the major shall complete Graduation Plan A. Students who are majoring in programs of study for which 36 or more units are required in the major shall complete Graduation Plan B.

Campus Procedure

Completing the Associate Degree

- Students who desire an AA or an AS degree must file a petition to graduate no later than the beginning of the semester prior to the one in which they expect to complete the requirements. (See Schedule of Classes Calendar page for exact dates.)
- Students must designate which plan they are using to obtain the degree. The choice should be based on these guidelines:
 - Choose Plan A if courses have been chosen to prepare for transfer to a four-year college or university OR if courses have been chosen to obtain a two-year general studies education.
 - Choose Plan B if courses have been chosen to complete those listed in one of the two-year occupational programs shown in another section of this catalog or if planning to transfer to a four-year institution as an engineering major.
- Restrictions Under Plan A
 A student must show at least 36 CSU-transferable units in the 60 units required regardless of the transfer institution to which the student will transfer,
- 4. Substitution of Graduation Requirements
 In unusual or special circumstances it is possible to perition for substitution of major requirements as well as general education graduation requirements. Graduation requirements are never waived, only substitutions are considered. Situations in which peritioning might be appropriate include course requirements that are not currently being offered at Pierce or substitution of more advanced courses for lower level requirements due to previous technical esperience in a particular area. Petitions for Substitution of Graduation Requirements are available in the Graduation Office.

Note: The following limitations apply to Graduation Plan A or B.

- A student may not use more than two courses taught in any department in order to satisfy General Education Requirements. (See Departmental Organization listed in the back of this catalog.)
- A student may not duplicate disciplines (for example, History 11 from B, 1, with History 3 from B, 2) in selecting courses to meet the requirements in each of the sections of B and D.
- While a course might satisfy more than one general education requirement, it may not be counted more than once for these purposes. It may be counted again for a different degree requirement as determined by the College.

PLAN A:

To be used by students who desire to obtain a general studies associate degree and by transfer students (except Engineering majors) who should coordinate this plan with the requirements of the college of transfer (see a counselor).

Major Requirements: At least 18 semester units of study taken in a single discipline or related disciplines.

Under Plan A: A student must coroplere at least 36 CSU transferable units in the 60 units required segardless of the transfer institution to which the student will transfer

General Education Requirements: 30 units in the following partern-

Section A: Natural Science - Select 3 units from the following courses:

Agri 103, 511, 711, 712, 901, 940, 950; Anshro 101, 111; Autron 1, 2, 3; Binlingy 3, 6, 10, 25; Chem 45, 51, 60, 101; Co Sci 570; Elector 2, 4, 6; Env Sci 1, 2, 7, 18; Geog 1, 3, 9, 15, 17; Geology 1, 4, 6, 10, 11, 17, 22; Meteor 3; Occano 1, 10, 12; Physica 6, 7, 12, 37-39; Phys Sci 1, 4, 7; Physiol 1, 8, 9; Psych 2.

Section B: Social and Behavioral Sciences - 9 units

NO DUPLICATION OF DISCIPLINES

- Select 3 unies from the following courses: History 11-13, 41-44, 52; Pol Sci 1, 30.
- Select 3 units from the following courses:
 Agri 110; Anthos 102, 103, 132, 141; Bus 1, 5, 6; Child Dev 1;
 Econ 1, 2, 10; Env Sci 17; Geog 2, 5, 7, 8, 10, 12, 14; History 3-6, 8, 19, 20, 21, 27, 30, 40, 43, 44, 50; Journal 100 (replaces Journal 5 and 12); Mgmt 31, 33; Pol Sci 2, 7, 14, 35; Poych 1, 3, 6, 11, 13, 14, 16, 18, 40, 41, 42, 51, 52, 66; Soc 1-3, 6, 7, 13, 17, 18, 28, 30; Spanish 10 (same as Hist 23), 26; Supv 6, 11
- Select 3 additional units from numbers 1 or 2 in this section.

Section C: Humanities - Select 3 units from the following courses:

ASI, 1-4, 40; Anthro 104 (same as Ling 1), 105, 121; Art 101, 102, 103, 111, 137, 138, 139, 201, 400, 500-502, 604-606, 614, 700, 708, 721, 805; Cimenia 3, 18; English 102, 203-209, 211-216, 219, 239, 240, 250, 252, 270; French 1-6, 8; Hintory 1, 2, 7; Human 1, 6, 11-14, 30, 31, 60, 61; Iralian 1-6, 8; Japan 1-4, 8, 27; Ling 1 (same as Anthro 104); Music 101, 111, 121, 122, 152, 181-184, 201-203, 321-324, 411-414, 501, 531, 561, 601-604, 611-614, 621, 624, 651, 705, 721, 741, 745, 753; Philos 1, 2, 12, 14, 15, 19, 20, 29, 30, 35, 41, 42; Photo 10, 27; PE 801, 802, 803; Soc 11, 15; Spanish 1-6, 8, 12, 15, 25, 27; Speech 130; Theater 100, 105, 110, 115, 125, 265, 270, 500.

Section D: Language and Rationality - 12 units NO DUPLICATION OF DISCIPLINES

- Select 5 units from the following courses: English 28, 101; Journal 101, 108; Off Adm 31, 32.
- Select 6 units from the following orders:
 Accig 1: Co Sci 501, 506, 507, 530, 572, 575; Electro 10, 14; Math 115, 116, 119, 125, 145, 146, 215, 227, 230, 238 (replaces 235), 239 (replaces 236), 240, 245, 260, 261; Off Adm 77; Philor 6, 7, 9, 201; Peich 66; Soc 4; Speech 101, 103, 104, 121, 122; Star 1; Supv 11
- Select 3 additional units from numbers 1 or 2 in this section.

Section E: Health and Physical Education Activity

Students who have served in the U.S. Armed Services or have completed Police or Fire Department recruit academy training programs may be eligible to states the health and P.E. graduation requirements. Contact the Graduation Office for details.

- 1. Health 8, 9, 10, 11 2 unus minimum.
- Physical Education: Activity course chosen from Phys Ed 100 through 600 or Phys Ed 90A, 90B, 91, 96, 666, 690 or 702 - 1 unit minimum

PLAN B:

To be used by students following an occupational program and angineering majors who desire to transfer.

Major Requirements: At least 36 semester units of study taken in a single discipline or related disciplines.

General Education Requirements: 18 units in the following patterns:

Section A: Natural Science - Select 3 units from the list of natural science courses listed in Plan A, Natural Science section.

Section B: Social and Behavioral Sciences - Select 3 units from the lin of social and behavioral sciences courses listed in Plan A, Social and Behavioral Sciences, Section B-1.

Section C: Humanities - Select 3 units from the list of humanities courses listed in Plan A, Humanities.

Section D: Language and Rationality - 6 units minimum - Select 3 units from the courses listed in Language and Rationality, Section D-1 of Plan A, and 3 additional units from Section D-2 of Plan A.

Section E: Health and Physical Education Activity - Select Health 9, 10 or 11, plus 1 unit of any physical activity course 90A, 90B, 91, 96, 100 through 600 or Phys Ed 666, 690 or 702. Graduates of the Nistring program are exempt from the health education requirement, also price military service for any major.

Completing the Associate Degree

- Students who desire an AA or an AS degree must file a petition to graduate during the semester prior to the semester in which they expect to complete the requirements. See the college calendar in the schedule of classes for exact dates to petition.
- Students must designare which plan they are using to obtain the degree. The choice would be based on these guidelines:
 - a. Choose Plan A if courses have been chosen to prepare for transfer to a four-year college or university in any major other than engineering OR if courses have been chosen to obtain a two-year general studies education. If you are a transfer student, be sure to coordinate courses chosen in Plan A with requirements of the college of transfer. PLAN A IS NOT A TRANSFER PLAN.
 - b. Choose Plan B if courses have been chosen to complete the requirements for a two-year occupational program or if planning to transfer to a four-year institution as an engineering major. The two-year occupational programs are listed in the Pietce Catalog under the heading "Educational Programs." All requirements for the program must be completed in addition to Plan B.

Associate Degree Programs

Educational Programs

Academic Degree and Certificate Programs

Academic Associate Degree Programs

Academic Associate Degree programs are designed to give the student an expanded educational experience in one academic area. Students are required to take a minimum of 18 degree-applicable semester units in a specific subject area.

The Liberal Arts major allows the student who has not yet decided on a major field of study the opportunity to sample courses in a variety of subjects.

The student must complete at least 30 semester units of general education requirements as listed in Graduation Plan A. In addition, 18 semester units of degree-applicable courses are required. These may be taken in a variety of subject areas. A total of 60 units is required for the degree, of which 36 most be CSU transferable.

Occupational Associate Degree Programs

These programs are designed to give the student job skills to use for employment purposes and to provide an Associate Degree upon the successful completion of a two year occupational program.

Occupational Certificate Programs

Occupational Certificates are awarded upon successful completion of a series of courses leading to mastery of specific job skills. A grade of "C" or better is required in each course.

	Degree	Certificate
Agriculture		
Agriculture Business	AS	TO SECOND
Floral Design and Management	AS	C
General Agriculture	AS	C
Horse Science	AS	C
Harticulture		
Basic Gardening (Basic)		C
, Basic Gardening (Advanced)	90 39	- 0
General Horticulture	AS	C
Greenhouse and Nursery Industry	AS	C
Landscape Installation and Maintanance Industry	AS	c
Landscape Planning and Design	AS	C
Landscape Technician (Basic)		C
Landscape Technicisn (Advanced)		C
Professional Gardening		C
Natural Resources Management	AS	
Pre-Veterinary Medicine	AS	77.00
Veterinary Technology	AS	
merican Sign Language (Interpreting)	AA	

Architecture	1000	
Architecture Technology	AA	C
Construction Technology	AS	C
Art		
Fine Arts	AA	
Graphic Design	AA	C
Business Administration	RESIDE N	
Accounting	AA	C
General Buziness	AA	
International Business*	All and said	C
Management and Supervision	AA	C
Marketing	AA	C
Real Estate	AA	C
Child Development	AA	
Associate Teacher*	1571-157	C
School Age Programs Teacher		C
Infant Care Teacher	1	0
Preschool Certificate		C
Director Preschool	DATE OF	C
Preschool Teacher*	- FE S. 50 LO	C
Computer Science	3.07	
Programming for Business	AA	C
Programming for Microcomputers and Small Business Systems	DO NO	c
Microcomputer Specialist		C
Programming for Computer Science	AS	C
Computer and Network Technology	AS	
Microcomputer Service Technology	Market Street	C
Network Technology		C
Digital Option	Difference of	C
Communications Option	THE REAL PROPERTY.	C
Analog Option	MENON.	C
Sectronics	AS	
Digital Option	MARINA	C
Communication Option		C
Analog Option		C
rench	AA	121
ndustrial Technology		
Automotive Service Technology	AS	0
Orafting - Mechanical	AA	C
General	4 97330	C
Numerical Control Programming	AS	C
Welding	Marie Property	C
Woodwork/Cabinetmaking	ASSES -N	C
alian	- AA	

Latin American Studies	AA	
Liberal Arts and Science	AA	
Music	AA.	
Nersing	AA	REIG
Office Administration		
Professional Secretary	AA :	0
Seneral Administrative	AA:	C
Legal Office Procedures	AA	C
Office Communications	1123 0	C
Basic Word Processing: WordPerfect		C
Basic Word Processing: Microsoft Word		C
Basic Computer Applications	LECT.	C
Advanced Computer Applications*		C
Basic Computerized Accounting		C
Photojournalism	AA	C
Pre-Engineering	AS	
Spanish	AA	
Theater		7111,12
Costume Option	AA	
Technical Theater Option	AA	

^{*}Panding State Approval

Student Responsibility

The suggested sequence of courses in each program is the most desirable to follow; but the order may be changed, if necessary, as long as prerequisites are mer. It is the student's responsibility to meet course prerequisites and graduation requirements. The general education and physical education requirements for the Associate Degrees are listed in previous sections of this catalog.

Students planning to transfer to bachelor degree programs should consult a counselor to verify requirements.

Agriculture - Business

Associate in Science Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree

This program is designed to offer students the opportunity to earn a degree in Agriculture-Business.

REA A - COURSES FROM THE BUSINESS DEPART	
	UNIT
Accounting 1	5
Business 1	11.5
Marketing 1	
Management 13	
Marketing 21	3
Office Administration	
Finance 8	

AREA 8 - COURSES FROM THE AGRICULTURE DEPARTMENT

Any 23 units from the Agriculture Department. UNITS. 23

AREA C - ELECTIVES

Any courses approved by either department chairs of Agriculture or Business

UNITS

Agriculture -Floral Design And Management

Associate in Science Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

This program is designed to prepare a person as a floral designer, flower shop manager or owner. The program has been developed through an advisory committee of floral designers, cut flower business persons, and Pierce College faculty.

AREA A - CORE PROG		UNITS
*Agri 701	Retail Floral Design and Practices I	2
*Agri 702	Retail Floral Design and Practices III	2
*Agri 703	Rutal Floral Design and Practices III	3
*Apri 704	Advanced Retail Floral Design and	17.77
	Practices	2
Agri 7064ac	Floristry Projects	6

These courses must be soben in sequence.

AREA B - MAJOR ELECTIVE

Students select related courses approved by the department. Suggested courses include, but are not limited to the following: Acctg 1, Agri 209, 711 or 712, 756, 760-762. 764, Art 201, 501, But 5, Mgmt 13. 28

AREA C - GENERAL EDUCATION

Units selected from College Catalog to meet graduation requirements. See Plan B.

18

Certificate Program

This program teaches students the flowers and plants in Southern California used primarily in the florist trade. In laboratory work the student learns corrage making, flower arrangements, funeral offerings, and the use of plastic flowers.

Lectures include shop management, buying, and salesmanship. Upon completion of the certificate program, the student is qualified to be employed in a flower shop.

CHEMEN	RED COURSES		UNITS
	*Agri 701	Retail Florel Design and Practices I	UNITS 7
	*Agri 702	Retail Floral Design and Practices II	2
	*Agri 703	Retail Floral Design and Practices III	2
	*Agri 704	Advanced Retail Floral Design and	31
		Practices	2
	Agri 708xec	Raristry Projects	6
*These	courses must be	e taken in sequence.	
ELECT	VES		UNITS

Agriculture - General Agriculture

Associate in Science Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

This program is designed to give students a broad background to prepare them for many different occupations in the field of agriculture and agricultural business.

AREA A - REQUIRED	MAJOR CLASSES	Tell 1000
Agri 103 Agri 501 Agri 714 Agri 901 ANY ANY ANY ANY ANY CoSci 538	Introduction to Solle Principles of Animal Science Principles of Horticulture Natural Resources Conservation 100 Series Class 500 Series Class 600 Series Class 600 Series Class 800 Series Class Microcomputer Application Software	UNITS 3 3 3 3 3 3 3 3

AREA 8 - MAJOR ELECTIVES Additional classes should be selected from any

Agriculture courses.

AREA C. See Plan

Certifie

	Military States Valley	UNITS
Agri 103	Introduction to Soils	3
Agri 501	Principles of Animal Science	3
Agri 714	Principles of Horticulture	- 3
ANY	500 Series Classes	- 6
ANY	600 Series Classes	3
ANY	700 Series Clauses	1
ANY	800 Series Classes	1
ANY	Business Cleases	9
CoSci 536	Microcomputer Application Software	3

- BRADUAT	ION GENERAL EDUCATION REQUIRE	MENTS
8 for specifi	c requirements:	17
cate Progr	am	
Agri 103 Agri 501	Introduction to Soils Principles of Animal Science	UNITS

20

Agriculture - Horse Science

Associate in Science Degree

Ameriate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

This program is designed to prepare students for a variety of jobs in the horse industry and is molded around a core of home science, agriculture, and general alacation courses. Extensive practical experience and field trips to many horse ficities in and near Los Angeles County complement the academic portion of the programs.

AREA A - COR	E COOM	100	
		Acceptance and the second	UNITS
'Agri		Introduction to Soils	3
Agril		Horse Production	3
Agnit	502	Horse Husbandry	3
AREA B - REO	UIRED N	AJOR	100
- Agri !		Principles of Animal Science	3
April	505	Animal Nutrition	3
Agrit		Animal Health and Disease Control	3
.¹Agri	511	Anatomy and Physiology of Animals	3
Agril	503	Equine Management Techniques	10
Agril	511	Farrier Science	2
Agrii	620	Basic Equitation	1
Agril	621	Horseback Riding Laboratory	1
Agni	530	Beginning Equine Training	. 2
	091	Advanced Equine Training	7
April	001	Moteorea edition scennik	
Agri AREA C - MAJ Select from any	IOR ELEC of the /	Equine Health and First Aid	1
Agri AREA C - MAJ Select from any 600 series cour	OR ELEC of the / ies.	Equine Health and First Aid CTIVES Agri 100, 200, 300, 500 or	10
AREA C - MAJ	OR ELEC of the / ies.	Equine Health and First Aid CTIVES Agri 100, 200, 300, 500 or	10
Agric AREA C - MAJ Select from any 600 series cour AREA D - GEN	OR ELEC of the / ies.	Equine Health and First Aid CTIVES Agri 100, 200, 300, 500 or	10
Agri AREA C - MAJ Select from any 600 series cour	OR ELEC of the / les. ERAL ED	Equine Health and First Aid CTIVES Agri 100, 200, 300, 500 or DUCATION	20
Agril AREA C - MAJ Select from any 600 series cour AREA D - GEN See Plan B. Certificate I	of the / ERAL ED	Equine Health and First Aid CTIVES Agri 100, 200, 300, 500 or DUCATION	20 -
Agri AREA C - MAJ Select from any 600 series cour AREA D - GEN See Plan B. Certificate I	ion election of the Jack. ERAL ED Progra	Equine Health and First Aid CTIVES Agri 100, 200, 300, 500 or DUCATION Principles of Animal Science	20 - UNITS 2
Agri AREA C - MAJ Select from any 600 series cour AREA D - GEN Ser Plan B. Certificate I Agri Agri	IOR ELEC of the J les. ERAL ED Progra	Equine Health and First Aid CTIVES Agri 100, 200, 300, 500 or DUCATION Principles of Animal Science Animal Nutrition	UNITS 1 3
Agri AREA C - MAJ Select from any 600 series cour AREA D - GEN See Plan B. Certificate I Agri Agri Agri	ion electrof the John Ses. ERAL EL Progra 501 505 510	Equine Health and First Aid CTIVES Agri 100, 200, 300, 500 or DUCATION Principles of Animal Science Animal Nutrition Animal Health and Disease Control	20 UNITS 2 3 3 3
Agril AREA C - MAJ Select from any 600 series cour AREA D - GEN See Plan B. Certificate I Agri Agri Agri Agri Agri	IOR ELEC of the J ICS. ERAL ED Progra 501 505 510 511	Equine Health and First Aid CTIVES Agri 100, 200, 300, 500 or DUCATION Principles of Animal Science Animal Nutrition Animal Health and Disease Control Anatomy and Physiology of Animals	20
Agri AREA C - MAJ Select from any 600 series cour AREA D - GEN See Plan B. Certificate I Agri Agri Agri Agri Agri Agri Agri	IOR ELEC of the J ICS. ERAL ED Progra 501 505 510 511 601	Equine Health and First Aid CTIVES Agri 100, 200, 300, 500 or DUCATION Principles of Animal Science Animal Nutrition Animal Health and Disease Control Aniatomy and Physiology of Animals Horse Production	20
Agri AREA C - MAJ Select from any 600 series cour AREA D - GEN See Plan B. Certificate I Agri Agri Agri Agri Agri Agri Agri Agr	IOR ELEC of the J less. ERAL ED Progra 901 905 505 501 602	Equine Health and First Aid CTIVES Agri 100, 200, 300, 500 or DUCATION Principles of Animal Science Animal Notition Animal Health and Disease Control Anatomy and Physiology of Animals Horse Production Horse Husbandry	20 UNITS 1 3 3 2 2 3 3 3 3
Agri AREA C - MAJ Select from any 600 series cour AREA D - GEN See Plan B. Certificate I Agri Agri Agri Agri Agri Agri Agri Agr	950 10R ELEC of the J less ERAL EI Progra 501 505 510 602 620	Equine Health and First Aid CTIVES Agri 100, 200, 300, 500 or DUCATION Principles of Animal Science Animal Health and Disease Control Anatomy and Physiology of Animals Horse Production Horse Husbandry Besic Equitation	20 UNITS 2 3 3 3 3 3 3
Agri AREA C - MAJ Select from any 600 series cour AREA D - GEN Ser Plan B. Certificate I Agri Agri Agri Agri Agri Agri Agri Agr	950 10R ELEC of the J less ERAL ED Progra 501 505 510 600 620 621	Equine Health and First Aid CTIVES Agri 100, 200, 300, 500 or DUCATION Principles of Animal Science Animal Nutrition Animal Health and Disease Control Anatomy and Physiology of Animals Horse Production Horse Husbandry Besic Equitation Horseback Riding Lisboratory	20
Agri AREA C - MAJ Select from any 600 series cour AREA D - GEN See Plan B. Certificate I Agri Agri Agri Agri Agri Agri Agri Agr	650 IOR ELEI of the J les. ERAL ED Progra 501 505 510 601 602 620 630	Equine Health and First Aid CTIVES Agri 100, 200, 300, 500 or DUCATION Principles of Animal Science Animal Health and Disease Control Anatomy and Physiology of Animals Horse Production Horse Husbandry Besic Equitation	20

Agriculture - Horticulture

Mens General Education Requirements, Plan B. Part A.

HORTICULTURE - GENERAL

Associate in Science Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

AREA A - CORE PROGR	RAM	UNITS
'Agri 103 'Agri 711 Agri 714 Agri 800 Agri 840 Agri 896A-C	Introduction to Soils Botany for Horticulture Principles of Horticulture Plant Identification and Use I Introduction to Pest Management Horticulture Projects A-C	3 4 3 3 3 1-6

AREA B -	REQUIRED C		
	Agn 716	Actioniculture I (Care of Trees	11135
	And Tells	and Shrubs)	
	Agri 742A Agri 756	Precticum in Horticulture A Greenhouse Plant Production	1
	registration.	or or	3/3
	Agri 757	Plant Propagation	3.
	Apri 760	Indoor Plant Care and Maintenance I	1
	Agri 808	Residential Landscape Design	3
	Agri 812	Landscape Installation and Maintenance I	3
AREA C	MAJOR ELEC	CTIVES	1000
Select free	m 700 or 800	series courses or other courses as	
	by the Depart		7
44			1122
AREA D -	GENERAL ED	DUCATION	
See Plan I		the state of the s	15
		m Requirements, Plen B, Part A.	19
HORTIC	HITHE (GREENHOUSE AND	
	RY INDUST		
		nce Degree	
Associate	Deeree arner	vanu DO NOT necessarily constitute to	he first two
			or Justin some
		ding to a hachelor's degree.	.,
years of a		ding to a hachelor's degree.	
years of a	CORE PROGR	ding to a hachelor's degree. RAM	UNITS
years of a	CORE PROGR	ding to a hachelor's degree. RAM Introduction to Soils	
years of a	CORE PROGR	ding to a hachelor's degree. RAM	UNITS
years of a	CORE PROGR 'Agri 103 'Agri 711	ding to a backelor's degree. RAM Introduction to Soils Botany for Horticulture	UNITS 3 4
years of a	CORE PROGR "Agri 103 "Agri 711 Agri 714 Agri 800 Agri 840	RAM Introduction to Soils Botany for Horticulture Principles of Horticulture Plant Identification and Use I Introduction to Pest Management	UNITS 3 4 3 3 3 3
years of a	CORE PROGR 'Agri 103 'Agri 711 Agri 714 Agri 800	RAM Introduction to Soils Botary for Horticulture Principles of Horticulture Plant Identification and Use I	UNITS 3 4 3 3 3
years of a	CORE PROGR "Agri 103 "Agri 711 Agri 714 Agri 800 Agri 840	Introduction to Soils Botany for Horticulture Principles of Horticulture Plant Identification and Use I Introduction to Pest Management Horticulture Projects A-C	UNITS 3 4 3 3 3 16
years of a	"Agri 103 "Agri 711 Agri 714 Agri 800 Agri 800 Agri 806 Agri 806 REQUIRED C	RAM Introduction to Soils Botany for Horticulture Principles of Horticulture Plant Identification and Use I Introduction to Pest Management Horticulture Projects A-C OURSES	UNITS 3 4 3 3 3 16 UNITS
years of a	"Agri 103 "Agri 103 "Agri 711 Agri 714 Agri 800 Agri 840 Agri 866A-C RECIUIRED C	RAM Introduction to Soils Botany for Horticulture Principles of Horticulture Plant Identification and Use I Introduction to Pest Management Horticulture Projects A-C OURSES Fertilizers and Plant Nutrition	UNITS 3 4 3 3 3 16
years of a	"Agri 103 "Agri 711 Agri 714 Agri 800 Agri 800 Agri 806 Agri 806 REQUIRED C	RAM Introduction to Soils Botany for Horticulture Principles of Horticulture Plant Identification and Use I Introduction to Pest Management Horticulture Projects A-C OURSES Fertilizers and Plant Nutrition Arboriculture I (Care of Trees	UNITS 3 4 3 3 3 1-6 UNITS 3
years of a	CORE PROGRAMMENT CORP. PROGRAMMENT CORE PROGRAMMENT CORP. PRO	RAM Introduction to Soils Botany for Horticulture Principles of Horticulture Plant Identification and Use I Introduction to Pest Management Horticulture Projects A-C OURSES Fertilizers and Plant Nutrition	UNITS 3 4 3 3 3 16 UNITS
years of a	"Agri 103 "Agri 103 "Agri 711 Agri 714 Agri 800 Agri 840 Agri 866A-C RECIUIRED C	RAM Introduction to Soils Botany for Horticulture Principles of Horticulture Plant Identification and Use I Introduction to Pest Management Horticulture Projects A-C OURSES Fertilizers and Plant Nutrition Arboriculture I (Care of Trees and Shrubs)	UNITS 3 4 3 3 3 1-6 UNITS 3 1
years of a	CORE PROGRAM 'Agri 103 'Agri 711 Agri 714 Agri 800 Agri 806A-C REQUIRED C Agri 718 Agri 718 Agri 728 Agri 750 Agri 757	Introduction to Soils Botany for Horticulture Principles of Horticulture Plant Identification and Use I Introduction to Pest Management Horticulture Projects A-C OURSES Fertilizers and Plant Nutrition Arboriculture I (Care of Trees and Shrubs) Practicum in Horticulture B Greenbouse Plant Production Plant Propagation	UNITS 3 4 3 3 3 16 UNITS 3 1 1 2 3 3
years of a	"Apri 103 "Apri 103 "Apri 711 Apri 711 Apri 714 Apri 800 Apri 800 Apri 806A-C REQUIRED C Apri 112 Apri 718 Apri 7428 Apri 750 Apri 757 Apri 760	litroduction to Soils Botany for Horticulture Principles of Horticulture Plant Identification and Use I Introduction to Pest Management Horticulture Projects A-C OURSES Fertilizers and Plant Nutrition Arboriculture I (Care of Trees and Shrubs) Practicum in Horticulture B Greenhouse Plant Production Plant Propagation Indoor Plant Care and Maintenance I	UNITS 3 4 3 3 3 146 UNITS 3 1 1 2 3 1 1
years of a	"Agri 103 "Agri 103 "Agri 711 Agri 714 Agri 800 Agri 840 Agri 866A-C RECIUIRED C Agri 716 Agri 756 Agri 757 Agri 760 Agri 808	Aimy to a backeler's degree. RAM Introduction to Soils Botany for Horticulture Principles of Horticulture Plant Identification and Use I Introduction to Pest Management Horticulture Projects A-C OURSES Fertilizers and Plant Nutrition Arboriculture I (Care of Trees and Shruba) Practicum in Horticulture B Greenhouse Plant Production Plant Propagation Indoor Plant Care and Maintenance I Hesidential Landscape Design	UNITS 3 4 3 3 3 146 UNITS 3 1 1 3 3 1 3 1 3 3 3 1 3
years of a	"Apri 103 "Apri 103 "Apri 711 Apri 711 Apri 714 Apri 800 Apri 800 Apri 806A-C REQUIRED C Apri 112 Apri 718 Apri 7428 Apri 750 Apri 757 Apri 760	litroduction to Soils Botany for Horticulture Principles of Horticulture Plant Identification and Use I Introduction to Pest Management Horticulture Projects A-C OURSES Fertilizers and Plant Nutrition Arboriculture I (Care of Trees and Shrubs) Practicum in Horticulture B Greenhouse Plant Production Plant Propagation Indoor Plant Care and Maintenance I	UNITS 3 4 3 3 3 146 UNITS 3 1 1 2 3 1 1
years of a	Agri 103 'Agri 103 'Agri 711 Agri 714 Agri 800 Agri 840 Agri 866A-C REQUIRED C Agri 718 Agri 718 Agri 756 Agri 750 Agri 760 Agri 848	Introduction to Soils Botany for Horticulture Principles of Horticulture Principles of Horticulture Plant Identification and Use I Introduction to Pest Management Horticulture Projects A-C OURSES Fertilizers and Plant Nutrition Arboriculture I (Cere of Trees and Shrubs) Practicum in Horticulture B Greenhouse Plant Production Plant Propagation Indoor Plant Care and Maintenance I Healderdial Landscape Design Training for Pest Control License	UNITS 3 4 3 3 3 1-6 UNITS 3 1 1 1 2 3 1 1 3 3 3 3 1 5 6 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 1
AREA B -	CORE PROGRAM 'Agri 103 'Agri 711 Agri 714 Agri 800 Agri 840 Agri 866A-C REQUIRED C Agri 716 Agri 716 Agri 750 Agri 750 Agri 760 Agri 808 Agri 808 MAJOR ELE	Introduction to Soils Botarry for Horticulture Principles of Horticulture Principles of Horticulture Plant Identification and Use I Introduction to Post Management Horticulture Projects A-C OURSES Fertificers and Plant Nutrition Arboriculture I (Cere of Trees and Shrubs) Practicum in Horticulture B Greenhouse Plant Production Plant Propagation Indoor Plant Care and Maintenance I Healdertial Landscape Design Training for Pest Control License CTIVES	UNITS 3 4 3 3 3 146 UNITS 3 1 1 3 3 1 3 1 3 3 3 1 3
AREA B -	Agri 103 'Agri 103 'Agri 711 Agri 714 Agri 800 Agri 840 Agri 866A-C REQUIRED C Agri 716 Agri 716 Agri 750 Agri 750 Agri 888 MAJOR ELE en Agri 700 on	Introduction to Soils Botarry for Horticulture Principles of Horticulture Principles of Horticulture Plant Identification and Use I Introduction to Pest Management Horticulture Projects A-C OURSES Fertificers and Plant Nutrition Arboriculture I (Care of Trees and Shruba) Practicum in Horticulture B Greenhouse Plant Production Plant Propagation Indoor Plant Care and Maintenance I Healdential Landscape Design Training for Pest Control License CTIVES	UNITS 3 4 3 3 3 1-6 UNITS 3 1 1 1 3 3 1 1 3 3 1 1 1 1 3 3 1
AREA B -	Agri 103 'Agri 103 'Agri 711 Agri 714 Agri 800 Agri 840 Agri 866A-C REQUIRED C Agri 716 Agri 716 Agri 750 Agri 750 Agri 888 MAJOR ELE en Agri 700 on	Introduction to Soils Botarry for Horticulture Principles of Horticulture Principles of Horticulture Plant Identification and Use I Introduction to Post Management Horticulture Projects A-C OURSES Fertificers and Plant Nutrition Arboriculture I (Cere of Trees and Shrubs) Practicum in Horticulture B Greenhouse Plant Production Plant Propagation Indoor Plant Care and Maintenance I Healdertial Landscape Design Training for Pest Control License CTIVES	UNITS 3 4 3 3 3 1-6 UNITS 3 1 1 1 2 3 1 1 3 3 3 3 1 5 6 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 1
AREA B - Select fro	Agri 103 'Agri 103 'Agri 711 Agri 714 Agri 800 Agri 840 Agri 866A-C REQUIRED C Agri 716 Agri 716 Agri 750 Agri 750 Agri 888 MAJOR ELE en Agri 700 on	Introduction to Soils Botany for Horticulture Principles of Horticulture Plant Identification and Use I Introduction to Pest Management Horticulture Projects A-C OURSES Fertilizers and Plant Nutrition Arboriculture I (Care of Trees and Shrubs) Practicum in Horticulture B Greenhouse Plant Production Plant Propagation Indoor Plant Care and Maintenance I Residential Landscape Design Training for Pest Control License CCTIVES 1800 series courses or other the Department	UNITS 3 4 3 3 3 1-6 UNITS 3 1 1 2 3 3 1 3 3 3 UNITS 7
AREA B - Select fro	CORE PROGRAM 'Agri 103 'Agri 711 Agri 714 Agri 800 Agri 840 Agri 806A-C REQUIRED C Agri 716 Agri 756 Agri 757 Agri 760 Agri 848 MAJOR ELE en Agri 700 or approved by	Introduction to Soils Botany for Horticulture Principles of Horticulture Plant Identification and Use I Introduction to Pest Management Horticulture Projects A-C OURSES Fertilizers and Plant Nutrition Arboriculture I (Care of Trees and Shrubs) Practicum in Horticulture B Greenhouse Plant Production Plant Propagation Indoor Plant Care and Maintenance I Residential Landscape Design Training for Pest Control License CCTIVES 1800 series courses or other the Department	UNITS 3 4 3 3 3 1-6 UNITS 3 1 1 1 3 3 1 1 3 3 1 1 1 1 3 3 1
AREA B - AREA C - Select for courses at	CORE PROGRAM 'Agri 103 'Agri 711 Agri 714 Agri 800 Agri 840 Agri 806A-C REQUIRED C Agri 716 Agri 756 Agri 757 Agri 760 Agri 848 MAJOR ELE en Agri 700 or approved by	Introduction to Soils Botany for Horticulture Principles of Horticulture Plant Identification and Use I Introduction to Pest Management Horticulture Projects A-C OURSES Fertilizers and Plant Nutrition Arboriculture I (Care of Trees and Shruba) Practicum in Horticulture B Greenhouse Plant Production Plant Propagation Indoor Plant Care and Maintenance I Residential Landscape Design Training for Pest Control License CCTIVES 1800 series courses or other the Department	UNITS 3 4 3 3 3 1-6 UNITS 3 1 1 2 3 3 1 3 3 3 UNITS 7

HORTICULTURE - LANDSCAPE INSTALLATION AND MAINTENANCE INDUSTRY

Associate in Science Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

AREA A - CORE PROGR	AM	UNITS
¹ Agri 103	Introduction to Soils	3
*Agri 711	Botany for Horticulture	A
Agri 714	Principles of Horsculture	3
Agri 800	Plant Identification and Use I	3
Apri 340	Introduction to Pest Management	3
Agri 896A-C	Horticulture Projects A-C	1-5

AREA B - REQUIRED	COURSES	
		UNITS
Agri 112	Fortilizers and Plant Nutrition	3
Agri 716	Arboniculture I (Core of Trees and Shrubs)	0.00
Apri 722	Care of Harticulture Equipment I	1
Apri 108	Residential Landscape Design	- 1
Agri 812	Landscope Installation and Maintenance I	2
Apri 815	Blumprint Reading and Cost Estimating	2
Agri 818	Basic Construction Techniques	1
Agri 820	Irrigation Design and Installation	3
Agri 822	Torf and Groundcover Management	3
Agri 848	Training for Pest Control License	3
AREA D. ALL IND	The second secon	
AREA C MAJOR ELE	CTIVES	
		UNITS
select from 700 or 800	Ferries courses or other courses	
is approved by Depart	electric	7
- Minute of radiant		8
AREA D - GENERAL E	DUCATION	
		UNITS
See Plan B for specific	enousements.	10
Advant Control & Acres	Acquirements	15
PRINCES CAPACIFIC CACACITY	on Requirements, Plan B. Part A.	

HORTICULTURE - LANDSCAPE PLANNING AND DESIGN Associate in Science Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a hachelor's deer

AREA A - COR	RE PROD	PRAM	10.7
			UNITS
Agr	103	Introduction to Soils	3
Agr	711	Botany for Horticulture	4
Agri		Principles of Horticulture	3
Apri	800	Plant Identification and Use I	3
Agri		Introduction to Pest Management	3
Agri	1964.C	Horticulture Projects A-C	1-6
AREA B - REO	UIRED (OURSES	
			UNITS
Agri	801	Plant Identification and Use II	3
Agri	902	Plant Identification and Use III	2
Agri	896	Landscape Planning and Design	4
Agri	807	Advanced Landscape Planning	187
		and Design	4
Agril	812	Landscape Installation and Mointenance I	3
Agril	815	Blucprint Reading and Cost Estimating	
Agril	E18	Basic Construction Techniques	2 3
Agril	820	Irrigation Design and Installation	3
Agril	822	Turf and Ground Cover Management	3
AREA C - MAJ	OR ELE	CTIVES	
			UNITS
Select from Arr	700 or	800 series courses or other	
CHITSES IN MORN	march from	the Department	100
contract we all distri	men cy	the tychestatest	
AREA D - GENE	ERAL ED	UCATION	- 00
	91-1		UNITS
Law Dilaw D. F.	-		
See Plan It for a	PACIENC N	equirements.	15
CTRUSTED SINCHISTRAL A		W. Krishistowarenia, Plane W. Plane A.	

HORTICULTURE Certificate Programs

These programs are designed to prepare a student for employment in the field of horticulture. Individuals are prepared for employment by various pensarcompanies in the horizoulture industries, governmental agencies, or to become self-employed. These programs may also serve as continuing education for those already employed in some field of horniculture. Students with a casual interest in lumiculture desiring to take classes for information and interest are also accepted.

Certificate of Gardening (Basic)	UNITS
Certificate of Bardening (Advenced) Landscape Technician (Basic)	20 30
Landscape Technician (Advanced)	40
Professional Gardening Certificate:	50

Agriculture - Natural Resources Management

Associate in Science Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a hachelor's degree.

The Natural Resources Management Program at Pierce College is designed to provide students with a two-year Associate Science Degree. Courses are oriented and designed to give students practical outdoor skills and experience which are necessary in resource management today. Included are techniques of native shrub and tree identification, propagation, planting, and management; sud profile seach; resource data collection techniques; basic land measurement skills; and inpographic map/aerial photo interpretation. Independent study, projects, and work experience are encouraged. Emphasis is placed on acquainting the student with government resource management agencies and their associated career areas.

Introduction to Soils

Field Work A-D

Directed Study

REQUIRED CLASSES

Apri 103

Agri 185

Agri 181a-p

Agri 205		
Agri 385		
¹ Agri 711	Botany for Horticulture	4
Agri 901	Natural Resources Conservation	-3
Ago 902	Natural Resources Laboratory	1
Agri 905	Introduction to Outdoor Recreation	2
Agri 940	Introduction to Forest Management	2
Agri 950	Introduction to Wilding Management	2
Apri 960	Wildland Fire Science	2
Agri 975	California Native Plants	3
Biology 10	Natural History I	
Geology 1	Physical Geology	3
MAJOR FLECTIVES PART	A (MINIMUM OF 10 UNITS)	
	demanded of 16 metral	Inter
Apri 906	Outdoor Recreation Management	UNITS
100000	Laboratory	
Apri 928	Natural Resource Construction Techniques	
Apri 930	Maps/Aerial Photos	2
Agri 931	Natural Resources Measurement	-
Agri 941	Forest Management Laboratory	-
Agri 942	Lirban Forestry	-
Agri 944	Global Forestry	4
Agri 161	Wildlife Management Laboratory	1
Apri 961	Wildard Fire Science Laboratory	1
Apri 970	Range Management	1
CoSci 530	Microsophia de Andidada Cabarra	III d
	Microcomputer Application Software	3
MAJOR ELECTIVES PART 8	(MINIMUM OF 7 UNITS)	
		UNITS
Acr. 758	Ashartenburg LiCom of Tonic and Parket	

Callenna.	and the second s	UNITS
Agri 716	Arboriculture I (Care of Tirees and Shrubs)	25
Anthro M3	Archaeology: Reconstructing of Human Past	3
Anthro 132	North American Indians	3
English 22	Technical English	3
Geog 14	Geography of California	3
Geslogy 10	Introduction to Environmental Geology	3
Geology 11	Introduction to Geology:	
	Our National Parks and Monuments	13
Geology 12	Introduction to the Geology of California	2
Oceano 1	Introduction to Oceanography	1
Speech 101	Oral Communication I	3

GENERAL EDUCATION

See Plan B for specific requirements. Meets General Education Requirements, Plan B., Part A. UNITS 17

UNITS

14

Agriculture -Pre-Veterinary Medicine

Associate in Science Degree

Department Subject Advisor: Dr. Lee Shapiro

PRE-VETERINARY MAJOR

The Pierce College Pre-Veserinary Program has an articulation agreement with the U.C. Davis School of Veterinary Medicine. This agreement allows our preveserinary students to apply directly to the Veserinary school after completing an AS degree and taking upper division Genetics and Embryology classes at
another college. Work with veterinarians is required for administration to Veterinary
school, so that students understand the duties and responsibilities of a
practicioner. The minimum requirement for animal, veterinary, and biomedical
science experience is 180 hours. Experience should include work with large and
small animals and a variety of species. Agriculture classes at Pierce College with
oursesponding laboratory sections are appropriate ways to gain experience even
though many are not U.C. transferrable for credit. We encourage pre-veterinary
sudents to get involved in the laboratory classes with veterinary technology
and the contraction of the contr

PRE-VETERINARY ACADEMIC TRAINING

		UNITS
Apri 401	Orientation to Veterinary Science	
Agri 501	Principles of Animal Science	3
Apri 505	Animal Nutrition	3
Agri 511/512	Anatomy and Physiology	4
	pryficvemment	3
Biology 6	General Biology I	5
	(Prerequisite college chemistry with labora	tory)
Biology 7	General Biology II	5
Chem 101	General Chemistry I	5
Chem 102	General Chemistry II	5
Chem 211	Organic Chemistry for Science Majors I	5
Chem 221	Biochemistry for Science Majors	5
English 101, 10	2, and one additional English class	9
Humanities an	d Social Sciences	9
Math 227	Statistics	4
Physics 6	General Physics I.	
(Prerequisite)	Trigonometry)	4
Physical 1	Introduction to Human Physiology 1	4

PRE-VETERINARY EXPERIENTIAL TRAINING

Choose a combination of courses so that actual laboratory I hands-on time will apply towards the experience

F (0.25)		UNITS
Agri 410/411	Animal Nursing L'Laboratory	3
Agri 420/421	Clinical Procedures in Animal Care I/	
	Laboratory	3
Apri 439/431	Veterinary Clinical Pathology/Laboratory	3
Agri 435/436	Veterinary Radiography/Laboratory	3
Agri 441	Large Animal Nursing Laboratory	2
Agri 603	Equine Management Techniques	2
Agri 650	Equine Health and First Aid	2

The Pierce Agriculture Department also offers electives for those veterinary science undents who wish to develop particular areas of interest or for anyone who wants to enhance his or her knowledge of animals.

ECTIVES (OPTIONAL)		UNITS
April 120	Ethical Issues of Using Animals	3
Apri 450	Introduction to Animal Facilitated	
200000	Therapy	
Agri 460	First Aid for Companion Animals	2
Agri 466	Avian Care and Husbandry	1
Agri 505	Animal Nutrition	3
Agri 596	Agricultural Enterprise Projects	10
Agri 601	Horse Production	3
Agri 602	Horse Husbandry	3
Apri 603	Equine Management Techniques	10
Apri 650	Equine Health and First Aid	2
	A STATE OF THE PARTY OF THE PAR	

Agriculture -Veterinary Technology

Associate in Science Degree

Department Subject Advisor: Elizabeth White

Pierce College offers AS degrees in veterinary technology and pre-veterinary medicine. The veterinary technology major qualifies a student to take the California State Board Examination to become a licensed Animal Health Technician.

The Agriculture Department boasts a variety of animal species on campus, including horses, beef, carde, sheep, dogs, caes, rabbits, pigs, and Ilamas. We also have a fine library which complements the Pierce College Library. Our faculty includes a Veterinatian, a Ph.D., a Registered Veterinary Technician, a Registered Small Animal Dictician and Reproductive Specialist, a successful rodeo rider and horse trainer, and other experienced and friendly "animal-people." Faculty advisement is available and highly recommended.

VETERINARY TECHNOLOGY MAJOR

The Venezinary Technology Major is accredited by the American Venezinary Medical Association. The program is experience oriented with lecture classes complementing hands-on laboratory work. To qualify for this program, the student must complete the following requirements:

- Submit application, which can be obtained from Veterinary Technology office. Applications are due finals week of each sensure.
- 2. Complete the following coursework:
 - a. Agri 180
 - b. Agn 401
 - c. Agri 501 and 510
 - d. Agri 511 and 512
- 3. One semester of Agri 181A: Field Experience at Veterinary Hospital.

The remainder of the classes for veterinary technology may be taken in any sequence. The coursework may be conspleted in 2 years, but most students take longer. A grade of D or F in any class is grounds for dismistal from the Veterinary Technology Program.

Student enrolled in AG 420, 421, 422, 425, 410, 411, 412, 413 must participate in daily kennel duty.

The faculty encourage your participation in the Veterinary Technology Club.

CORE CLASSES FOR VETERINARY TECHNOLOGY

		UNITS
Apri 191	Field Work	3
Agri 401	Orientation to Vot Tech	1
Agri 501	Principles of Animal Science	3
Agri 510	Animal Health & Disease Control	3
Agri 511/512	Anatomy & Physiology of Animals	4
English 101	College Reading and Composition I	3
Health and Phy	sical Education	3
*Humanities		3
"Language and	Rationality	5
Math 115	Elementary Algebra	5
*Natural Scien	ces	3
Off Adm 82	Microcomputer Software Survey in the Office	0 3
*Social and Be	havioral Sciences	3
*See Gradus	tion Plan A for choices	

VETERINARY TECHNOLOGY MAJOR

MILI IEUMINUS	our moun	HANTS
		UNITS
Agri 402	Topics in Veterinary Technology	2
Agri 410/411	Animal Nursing Utaboratory	3
Agri 412/413	Arvieral Nursing II/Laboratory	3
Agri 420/421	Clinical Procedures Maboratory	3
Agri 422/423	Clinical Procedures N/Laboratory	3
Agri 435/431	Veterinary Clinical Pathology	3
Agri 435/436	Veterinary Radiography/Laboratory	3
Agri 441	Large Animal Nursing Laboratory	2
Agri 470	Laboratory Animal Care	3
Agri 480	Clinical Experience for Animal Technicians	9
Biology 3	Introduction to Biology	4
Chem 51	Fundamentals of Chemistry I	5
Micro 20	General Microbiology	4

American Sign Language/Interpreting Program

Associate in Arts Degree

Amociate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

This program is designed to prepare for a career in interpretting for deaf and hearing people. Students will be trained in the various aspects of interpreting and upon completion of the program should be prepared to work in the field. As an interpreter one will function as a facilitator between the deaf person and the bearing person.

FALL SEMESTER I			UNITS
	ASL3	American Sign Language III	4
	ASLIE	Creative Signing	2
	A \$ 1.30	Fingerspelling	1
	ASL40	Introduction to Deaf Culture	-3
	*English 101	College Reading and Composition I	3
	*Gen Ed	General Education	1
	SPRING SEMES	STERI	100
	ASL4	American Sign Language IV	
	ASLS	Introduction to Interpreting	0.75
	*Anthro 104	Human Language and Communication	3
	DF	The second secon	
	*Ling 1	Introduction to Language and Linguistics	100
	A'S L 31	Fingerspelling II	1
	*Speech 121	The Process of Interpersonal Communication	1 2
	00		
	*Speech 161	Oral Communication 1	3
	FALL SEMESTE	RII	
	ASL6	Voice to Sign Interpreting I	4
	ASL10	Sign to Voice Interpreting I	4
	AS1.17	Ethics and Professional Standards of	1
		Interpreting	3
	*Gen Ed	Graduation General Education Requirement	1
	SPRING SEMES		130
	ASL7	Valce to Sign Interpreting II	4
	ASL11	Sign to Voice Interpreting II	4
	ASL12	Specialized Interpreting	3
	"Health 10	Health Education	2
	*Phys Ed	Physical Education Activity	1

Elections A S L 15 (ASL Linguistics), A S L 25 (A S L Lab).

Architecture -Architecture Technology

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree,

This program is designed to prepare students interested in obtaining employment as architectural techniciam or transferring to schools of Architecture. The program has been developed through an advisory committee of architects, technicians, contracties, and Pietce College faculty. For General Education Subject Requirements, follow Plan B. If an eventual 4-year degree is considered, be aware of the requirements different from Plan B.

FIRST SEMESTER		PARTIE
Arch 1 Arch 5 Arch 9 Arch 20 Arch 41	Introduction to Architecture Architectural Drawing 1 Barrents of Architecture Methods of Construction	UNITS 1 3 3 2
14 Math 145	Architectural Model Biologing Technical Mathematics 1	2 2

SECOND SEMESTER	
Arch 6 Architectural Drawing II	2
Arch 21 Materials of Construction	3
Arch 33 Basic Architectural Design 1	3
133 Meth 146 Technical Methematics II	3
General Education	3
THIRD SEMESTER	
Arch 7 Architectural Drawing III	-
Arch 22 Equipment of Buildings	3
Arch 34 Basic Architectural Design II	3
English 28 Intermediate fleeding and Composition	3 3 3
Of the second se	-
English 101 College Reading and Composition I	3
*Architectural Elective	3
FOURTH SEMESTER	
Arch 8 Architectural Drawing IV	3
Arch 10 Freehand Drawing I	2
Arch 12 Architectural Rendering	2
Art Bective	3
*Health 10 Health Education	2
*Phys Ed Physical Education Activity	1
General Education	6
ted Electron: Arch 15, 18, 23, 37 (CAD), 52, and Coop Ed.	8
116 or 115 or Math 125 may be substituted.	
240 may be relatituded.	

⁴Meet General Education Requirements, Plan B, Part D2.

Meers General Education Requirements, Plan B. Part D1.

Moets General Education Requirements, Plan B, Pare E.

Notes CA State Polytechnic Universities, San Luci Obispo and Pomona offer degrees in Ambinerum and Planning. See a counselor or department advisor for further information.

Certificate Program

For students who wish to complete two classes (minimum) in one year to prepare for employment, A minimum of 37 units is required. Cannot be completed in one academic year.

200		UNITS
Arch 1	Introduction to Architecture	1
Arch 5	Architectural Drawing I	3
Arch 6	Architectural Drawing II	- 1
Arch 7	Architectural Drawing III	3
Arch 8	Architectural Drawing IV	3
Arch 10	Freehand Drawing 1	2
Arch 12	Architectural Rendering	2
Arch 20	Methods of Construction	2
Arch 21	Materials of Construction	3
Arch 22	Equipment of Buildings	3
Arch 33	Basic Architectural Design I	3
Arch 34	Basic Architectural Design II	- 1
Arch 41	Architectural Model Building	
Math 146	Technical Mathematics II:	3

^{*}Meets Graduation General Education Requirement

Architecture -Construction Technology

Associate in Science Degree

Associate Degree programs DO NOT constitute the first two years of a program leading to a bachelar's degree.

This program is designed to prepare a person for employment in the field of construction impection and management. Courses in building inspection and building construction for both government and private industry offer many attractive potentials. For Graduation General Education Subject Requirements, follow Plan B.

FIRST SEMES	TER	UNITS
Arch 1	Introduction to Architecture	1
Arch 5	Architectural Drawing I	3
Arch 20	Methods of Construction	2
*English 28	Intermediate Reading and Composition	3 3 3 3
23 Math 145	Technical Mathematics I	3
Architectural	Elective	3
Elective		2
SECOND SEM	IESTER	
Arch 6	Architectural Drawing II	3
Arch 18		3
Arch 21	Materials of Construction	3
35 Math 145	Technical Mathematics II	3
General Educ	eton	3
THIRD SEMES	STER	
Arch 9	Elements of Architecture	3
Arch 52	Concrete Construction Design	
	and Practice	3
¹ Architectural	Elective	- 6
General Educi	ation	. 3
FOURTH SEM	ESTER	
Arch 22	Equipment of Buildings	3
Arch 23	Construction Estimating	3
Econ 2	Principles of Economics II	3
*Health 10	Health Education	- 2
*Phys Ed	Physical Education Activity	1
General Educa		1

Suggested Exciser: Coop Ed. Electrical communition and Electricity classes. Arch 37 (CAD).
*Math 116 or 115 or Math 125 may be substituted.

Certificate Program

Students who wish to complete clauses in one year to prepare for employment. A minimum of 32 units is required. Cannot be completed in one academic year.

		UNITS
Arch 1	Introduction to Architecture	1
Arch 5	Architectural Drawing 1	3
Arch 8	Architectural Drawing II	3
Arch 9	Elements of Architecture	3
Arch 18	Strength of Architectural Materials I	3
Arch 20	Methods of Construction	2
Arch 21	Materials of Construction	3
Arch 22	Equipment of Buildings	3
Arch 23	Construction Estimating	3
Arch 52	Concrete Construction Design	
	and Practice	3
Econ 2	Principles of Economics II	3
Math 146	Technical Mathematics II	1

Art - Fine Arts

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

Students wishing to pursue an Associate in Arts Degree under Graduation Plan
B must complete a minimum of 18 units in General Education as required in
the College. In addition they must complete a core program of Basic Art
Courses, and a program in depth chosen from one of the Art Concentrations
listed below. An Associate in Arts Degree in Fine Arts would, therefore,
posically include the following:

18 units 18 units 18-21 units 6-7 units
18 Unin
18 Unio
18 Units
18 Units
18 Unice
21 Units
18 Units
may elect the
18 Units

Art - Graphic Design

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

This program is planned for students who expect to make advertising art or graphic design their vocation. Satisfactory completion of the course of study below leads to the Associate in Arts Degree.

RRST SEMESTER Art 201 Drawing I Art 501 Beginning Two-Dimensional Design Art 604 Graphic Design I *General Education*	UNITS 3 3 3 3
SECOND SEMESTER 1Art 103 Art Appreciation I Art 605 Graphic Design II Art 600 Illustration I 1 General Education	3 3 3 6
THIRD SEMESTER Art 606 Graphic Design III Art 621 Illustration II Art Elective "General Education	3 3 3 6

Office and the property of

Mash 240 may be substituted.

^{*}Morts General Education Requirements, Plan B. Part D1:

More Greened Education Requirements, Plan B, Part D2.

Morte Control Education Requirements, Plan B. Part E.

FOURTH SEMI	ESTER	
Art 617	Graphic Communications IV	4
Art 622	Illustration for the Graphic Artist	3
Art Elective		3
² General Educ	ation	3

More humanistic requirement for general education.

25x with of art electric chines from Art 254, 300, 502, 600, 620.

See Graduation Control Education Requirement

Certificate Program

This program provides specialized training in Graphic Design for employment. A minimum of 37 units is required.

	UNITS
Art 201 Drawing I	3
Art 501 2D Design	3
Art 502 3D Design	3
Art 604 Graphic Design I	3
Art 805 Graphic Design II	1
Art 606 Graphic Design III	3
Art 613 Graphic Design	1
Art 614 Graphic Communications I	4
Art 615 Graphic Communications II	4
Art 616 Graphic Communications III	4
Art 617 Graphic Communications IV	4
Art 629 filustration I	3
Art 621 Illustration II	. 3
Art 622 Blustration for the Graphic Designer	3

Business Administration -Accounting

Associate in Arts Degree

This program is designed to prepare a student for entry into the business community as an accounting clerk or a middle-management trainee. It will provide the officational background for preparing the student to fulfill the needs of business in maintaining seconds, financial controls, and preparing informational reports for management decision-making processes and for governmental requirements.

Typical Positions: bookkeeper, accounting clerk, amistant auditor, financial analyst, proprietor.

REQUIRED AREA SUBJECTS

		UNITS
FAccts 1	Introductory Accounting I	5
Acctg 2	Introductory Accounting II	8.
Acctg 15	Tax Accounting I	3
Acety 17	Payroll Accounting	2
Bus 1	Introduction to Business	3
Bus 5	Business Low I	3
Finance 1	Principles of Finance	3
Mgnt 13	Small Business Management I	3
10ff Adm 32	Bosiness Communications	3
0ff Adm 78	Microcomputer Accounting Applications	3
	for the Flacture Office	-

ELECTIVE AREA SUBJECTS (15 UNITS MINIMUM)

		UNITS
Acctg 30	Managerial Accounting	HACLE !
*Accts 185	VITA - Directed Study	1
*Accts 295	VITA - Directed Study	2
Finance 8	Parsonal Finance	. 3
Int Bus 1	International Trade	3
Mgmt 2	Organization and Management Theory	3
Mgnt 33	Personnel Management	3
Market 1	Principles of Selling	3
Market 21	Principles of Marketing	3
Supv 1	Elements of Supervision	3
Coop Ed	Work Experience	1-4

ADDITIONAL GENERAL EDUCATION REQUIREMENTS (12 UNITS) SEE GRADUATION PLAN R

	UNITS
Natural Sciences	3
Humanities	3
Health and Physical Education	3
Social and Behavioral Sciences	3

*Volunteer Income Tax Assistance Courses, TBA.

Off Adm 32 meets Language and Rationality (D1) General Education requirement.

Actty 1 meets Language and Rationality (D2) General Education requirement.

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

Certificate Program In Accounting

This program is designed to prepare a student for entry into the business community as an accounting trainee/clerk or for the student who wishes to become a proprietor of a small business. The program provides the minimum educational background for preparing the student in understanding the needs of businesses in maintaining records and financial controls, and preparing financial reports for decision-making.

Typical positions include: accounting clerk/trainer, bookkeeper, audisor/trainee, financial analyst/trainee, small business proprietor.

REQUIRED AREA SUBJECTS

Acete 1	Association & Commission &	UNITS
Accts 15	Introductory Accounting I	2.5
	Tax Accounting I	-3
Acetg 17	Payrol Accounting	2
Bus T	Introduction to Business	3
Bus 5	Business Law I	3
Off Adm 32	Business Communications	3
Off Adm 78 ,	Microcomputer Acets Applications	
	for the Electronic Office	3

ELECTIVE AREA SUBJECTS (9 UNITS MINIMUM)

	ST. BELLEVILLE SHIPE	UNITS
Acetg 20	Managerial Accounting	3
Finance 1	Principles of Finance	3.
Market 21	Principles of Marketing	3
Mgmt 13	Small Business Management I	3
Supv 1	Elements of Supervision	3
Off Adm 82	Microcomputer Software Survey in	2510
	the Office	3
Off Adm 85	Microcomputer Office Applications:	- 17
	Spreadsheet	3

Includes a word processing, spreadsheer and data base program.

Business Administration -Agriculture

Associate in Science Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

This program is designed to offer students the opportunity to earn a degree in Agriculture-Business.

REQUIRED AREA SUBJECTS FROM THE BUSINESS DEPARTMENT:

	UNITS
Accounting 1	5
Business 1	- 3
Marketing 1	3
Management 13	3
Marketing 21	3
Office Administration	3
Finance 8	3

REQUIRED AREA SUBJECTS FROM THE AGRICULTURE DEPARTMENT UNITS

Any 23 units from the Agriculture Department. 23

ELECTIVES

Any courses approved by either department chairs of Agriculture or Business. UNITS

Business Administration -General Business

Associate in Arts Degree

This program is designed to provide a broad formal business education for those students thinking of starting their own business. It provides great latitude in course selection to allow students to tailor the program to their goals.

REQUIRED AREA SUBJECTS

	THE RESERVE THE PROPERTY OF THE PARTY OF THE	JNHTS:
PAcetg 1	Introductory Accounting I	5
But 1	Introduction to Business	3
Bus 5	Business Law I	3
Mgnt 2	Organization and Management Theory	3
Mgmt 13	Small Business Management I	3
Market 1	Principles of Selling	3
Market 11	Fundamentals of Advertising	3
Market 21	Principles of Marketing	3
10ff Adm 32	Business Communications	3
Off Adm 82	Microcomputer Software Survey in the Office	3

ELECTIVE AREA SUBJECTS (15 UNITS MINIMUM)

		UNITS
Accts 2	Introductory Accounting II	5
Finance 1	Principles of Finance	3
	Of .	
Finance 8	Personal Finance	3
Int Bus 1	International Trade	- 3 -
Mgnt 6	Public Relations	3.
Mgnt 31	Human Relations for Employees	3
Mgmt 33	Personnel Management	3
Market 31	Retail Merchandising	3
Float Es 1	Real Estate Principles	3
Supv 1	Elements of Sopervision	3.

ADDITIONAL GENERAL EDUCATION REQUIREMENTS (12 UNITS) SEE GRADUATION PLAN 8.

	UNITS
Natural Sciences	3
Humanities	3.
Health and Physical Education	3
The state of the s	3
Social and Behavioral Sciences	3

Off Adm 32 meets Language and Rationality (D1) General Education requirement.

Acte 1 moves Language and Rationality (D2) General Education Requirement.

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

Business Administration -International Business

Certificate Program Pending State Approval

Contact Business Department for more information,

Business Administration -Management And Supervision

Associate in Arts Degree

This program is designed so meet the needs of 1) employed persons desiring to perpare for supervisory positions, and 2) supervisors and other management personnel who wish to gain knowledge which will enable them either to perform their duries more effectively or to advance to more responsible positions. This course of study was developed with the assistance of the Business Advisory Committee and seconsmended by the Business of Industrial Education of the California State Department of Education. Those courses applied towards the Supervisory Management Certificate are also applicable for this Degree.

Typical Positions: Various supervisorial and managerial positions in the industrial and commercial community.

REQUIRED AREA SUBJECTS

	The same of the sa	UNITS
Acctg 1	Introductory Accounting I	5
Bus 1	Introduction to Business	3
Bus 5	Business Law I	1
Mgmt 2	Organization and Management Theory	3
Mgost 31	Human Relations for Employees	3
Mgmt 33	Personnel Management	3
Market 21	Principles of Marketing	3
*Off Adm 32	Business Communications	3
Off Adm 82	Microcomputer Software Survey in the Office	3

ELECTIVE AREA SUBJECTS (15 UNITS MINIMUM)

		UNITS
Acctg 2	Introductory Accounting II	5
Finance 1	Principles of Finance	3
	or	
Finance II	Personal Finance	2
Mgmt 6	Public Relations	3
Mgmt 13	Small Business Management I	3
Market 1	Principles of Selling	3
Supv 1	Bements of Supervision	3
Int Bus 1	International Trade	3
Int Bus 6	International Marketing	3
Int Bus 11	International Management	3
	The state of the s	

ADDITIONAL GENERAL EDUCATION REQUIREMENTS (12 UNITS) SEE GRADUATION PLAN B.

	UNITS
Natural Sciences	3
Humanities	3
Health and Physical Education	3
Social and Bahavioral Sciences	3

Off Adm 32 meets Language and Rationality (D1) General Education transferences.

Acry 1 meets Language and Rationality (D2) General Education Requirement.

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

Certificate Program in Management and Supervision

This Certificate Program was developed in cooperation with the Business Administration Advisory Committee. It is designed to give specialized training for supervisory management personnel. All of these courses may be used to apply toward the fulfillment of the requirements for an Associate in Arts Degree in Supervisory Management.

REQUIRED AREA SUBJECTS

F1.00		UNITS
Mgmt 2	Organization and Management Theory	3
Mgmt31	Human Relations for Employees	3
Mgmt 33	Personnel Management	- 3
Market 21	Principles of Marketing	3
Off Adm 82	Microcomputer Software Survey in the Office	1.2
Supv 1	Elements of Supervision	3

ELECTIVE AREA SUBJECTS (12 UNITS MINIMUM)

	and the second second	UNITS
Bus 1	Introduction to Business	3
Bus 5	Business Law I	3
Finance 1	Principles of Finance	3
	or	
Finance 8	Personal Finance	3
Mgmt 6	Public Relations	3
Mgmt 13	Small Business Management I	3
Market 1	Principles of Selling	3

Business Administration -Marketing

Associate in Arts Degree

This program was developed to prepair students to enter the broad area of marketing for the business enterprise. Upon successful completion of this program, the student has a background in the principles and practices involved in the distribution of products and services from produces through middlemen to the ultimate consumer. Career opportunities include tales, advertising, public relations, purchasing, and management.

Typical Positions: Retail, wholesale and industrial sales; buyer, merchandising supervision; proprietor.

REQUIRED AREA SUBJECTS

2000		UNITS
"Acctg 1	Introductory Accounting I	5
Bus 1	Introduction to Business	3
Bus 5	Business Law I	3
Mgnt.5	Public Relations	3
Mgnt 13	Small Business Management I	3
Market 1	Principles of Setting	3
Market TT	Fundamentals of Advertising	3
Market 21	Principles of Marketing	3
'0ff Adm 32	Business Communications	3
Off Adm 82	Microcomputer Software Survey in the Off	lice 3

ELECTIVE AREA SUBJECTS (15 UNITS MINIMUM)

Jot Bus 1	International Trade	UNITS
Mgest 2	Organization and Management Theory	3
Mgmt 31	Human Relations for Employees	3
Market 31	Retail Merchandising	2
Supv 1	Elements of Supervision	3
Coop Ed	Work Experience	14
Int But 5	International Marketing	333

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

ADDITIONAL GENERAL EDUCATION REQUIREMENTS (12 UNITS)

	UNITS
Natural Sciences	3
Humanities	- 2
Health and Physical Education	3
Social and Behavioral Sciences	3

Off Adm 32 meets Language and Rationality (D1) General Education requirement.

Acry 1 meets Language and Rationality (D2) General Education Requirement.

Certificate Programs In Marketing

This Certificate Program was developed in cooperation with the Marketing Advisory Committee. It is designed to provide an in-depth exposure to the fields of Marketing leading to employment. These courses may be used to apply toward the fulfillment of the requirements for an Associate in Arta Degree in Marketing Management.

REQUIRED AREA SUBJECTS

		UNITS
Bus I	Introduction to Business	3
Market 21	Principles of Marketing	3
Off Adm 32	Business Communications	3
Market T	Principles of Salling	3
Market 11	Fundamentals of Advertising	3
Off Adm 82	Microcomputer Software Survey in the Office	2

ELECTIVES/GENERAL MARKETING CERTIFICATE (12 UNITS MINIMUM)

let Bus 1	International Trade	UNITS
Mgmt 2	Organization and Management Theory	3
Mgmt 6	Public Relations	3
Mgmt 13 Mgmt 21	Small Business Menagement I	3
*Market 31	Human Relations for Employees Retail Merchandising	3
Coop Ed	Work Experience	14
Int Bus 5	International Marketing	3

^{*}Not offered as a day class.

Business Administration -Real Estate

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

The following program was prepared in cooperation with the Pierce College Real Estate Advisory Committee in order to provide a course of study for persons who plan to go into the various aspects of the Real Estate Industry. Those courses applied towards the Real Estate Certificate are also applicable for this Degree.

REQUIRED AREA SUBJECTS

4.00	UNIT	5
Acctg 1	Introductory Accounting 1 5	
But 1	Introduction to Business 3	
Bos 5	Business Law I 3	
Market 1	Principle of Salling 3	
Real Es 1	Real Estate Principles 3	
Real Ex 3	Real Estate Practices 3	
Real Es 5	Legal Aspects of Real Estate 1 3	
Real Es 7	Real Estate Finance I	
Rool Es 9	Real Estate Appraisal 1 3	
Escrow 1	Fundamentals of Excrow 3	
Off Adm 32	Business Communications 3	
Off Adm 82	Microcomputer Software Survey in the Office 3	
Real Es 7 Real Es 9 Escrow 1	Real Estate Finance I 3 Real Estate Appreisal I 3 Fundamentals of Escrow 3 Business Communications 3	

HEA ELECTIVE SUBJECTS (14 UNITS MINIMUM)	units
Accts 2 Introductory Accounting II	5
Bus 6 Business Law II	3
Finance 1 Principles of Finance	3
¢r .	
Finance 8 Personal Finance	1
Market 21 Principles of Marketing	3
Mont 2 Diganization and Management Theory	3
Mont 6 Public Relations	3
Supv 1 Elements of Supervision	3

ADDITIONAL GENERAL EDUCATION REQUIREMENTS (12 UNITS)	UNITS
Health and Physical Education Humanities	3
Natural Sciences Social and Rehavioral Sciences	3

Sculents must pass a competency test in their understanding of American Institutions and U.S. History or complete an appropriate course in American Institutions or U.S. History. See Plan B.

Off Adm 32 mosts Language and Rationality (D1) General Education requirement.

Pacing I meets Language and Rationality (D2) General Education requirement.

Certificate Program

ELEC

This program was developed with the cooperation of the Pierce College Real Estate Advisory Committee. A Certificate of Completion will be awarded upon the satisfactory completion of 24 units as indicated below. This program gives a non-year, in-depth exposure into the field of Real Estate. Those courses may also be applied towards the Associate in Arts Degree in Real Estate.

REQUIRED AREA SUB	UNITS	
Real Es 1 Real Es 3 Real Es 5 Real Es 7 Real Es 9	Real Estate Principles Real Estate Practices Legal Aspects of Real Estate I Real Estate Finance I Real Estate Appraisal I	3 3 3 3

CTIVE	AREA SUBJ	ECTS (9 UNITS MINIMUM)	UNITS
	Acctg 1	Introductory Accounting I	5
	Accts 21	or Bookkeeping and Accounting 1	2
	Bus 5 Bus 6	Business Lew II Business Lew II	3
	Finance 1	Principles of Finance	3
	Finance 2 Market 1	Investments Principles of Selling	3
	Real Es 6 Real Es 10	Legal Aspects of Real Estate II Real Estate Appraisal II	3

Child Development

The Child Development Program offers the student several options. Completion of each program leads to an occupational certificate, transfer option and/or Associate in Arts degree. All child development classes are applicable to the State Child Development Permit. The Child Development Program is planned to meet the roads of those underns wishing to prepare for employment or who are presently employed in the field of Early Childhood Education. The curriculum prepares students to teach in programs for young children which include: Private, Parent-Gooperative. Head Start, Children's Centers, and Infant or School-age Program. Each undern should analyze these programs for their differences as well similarities before choosing a specific option. Students with background in Child Development are able to pursue professional opportunities in both educational and business fields.

Child Development Programs pending State approval.

Associate of Arts Degree' Plan A (Transfer**)

60 units minimum with at least 32 units in Child Development. Must meet general education requirements for graduation.

EQUIRED COURSES		UNITS
CD 1	Child Growth and Development	3
CD 2	Early Childhood Principles and Practices	3
CD 3	Creative Experiences for Children 1	2
CD 4	Creative Experiences for Children II	3
0010	Child Health	3
CD11	Home, School and Community Relations	3
CD42.	The Child in a Multi-Cultural Society	3
*0022-23	Practicum in Child Development I - II or	
*C081-82	Field Work in Child Development I - II (For students employed in the field)	

ELECTIVE AREA SUBJ	ECTS	UNITS
CD 30 *CD 38 *CD 39 CD 46 CD 45 Psych 15 *Psych 17 *Psych 40 *Eng 218	Infant Studies Administration of Early Childhood Programs I Administration of Early Childhood Programs II School Age Programs Early Childhood Mentering Intimocy, Marriage & Family Relationships The Exceptional Child Paychology of Parent Child Relations Children's Utersture	3

^{*}These courses have a prerequisite

GRADUATION REQUIREMENTS

Consult with a counselor for General Education requirements for AA degree.

Associate of Arts Degree' Plan B

54 units minimum with at least 36 units in Child Development. Must meet general education requirements for graduation.

WOUND VOID			-0.
REQUIRED (COURSES		UNITS
	CD 1 CD 2 CD 3 CD 4 CD 10 CD 11 CD 42 CC 022-23	Child Growth and Development. Early Childhood Principles and Practices Creative Experiences for Children I Creative Experiences for Children II Child Health Home, School and Community Relations The Child in a Multi-Cultural Society Practicum in Child Development I - II	3 3 3 3 3 3 3 3 3 3 8
	CD81-82	or Field Work in Child Development 1 - II (For students employed in the field)	

^{**} Transfer students must coordinate their plan with the requirements of the college of transfer (see a counselor).

ELECTIVE AREA SUBJ	
CO 30 *CD 38	UNITS Infant Studies 3 Administration of Early Childhood Programs 1 3
*CD 39	Administration of Early Childhood Programs II 2 School Age Programs 3 Early Childhood Montoring 2
Psych 16 *Psych 17 *Psych 40 *Eng 218	Intimacy, Marriage & Family Relationships 3 The Exceptional Child 3 Psychology of Perent Child Relations 3

These courses have a prerequisite

GRADUATION REQUIREMENTS

Consult with a counselor for General Education requirements for AA degree.

Child Development Occupation Certificate¹ Preschool Teacher

With additional G.E. units and required experience, the student will be eligible for the Child Development Permit as defined under Title 5. Meeting this requirement will enable the student to teach in federal and state preschool programs. All courses must be completed with a grade of "C" of better.

CD 1 Child Browth and Development 3 CD 2 Early Childhood Principles and Practices 3 CD 3 Creative Experiences for Children I 3 or CD 4 Creative Experiences for Children II 3 CD 10 Child Health 3 CD 11 Home, School and Community Relations 3 CD 42 The Child in a Musti-Cultural Society 3 *CD 22 & 23 Practicum in Child Development I & II (4-4) or *CD 81 & 82 Feld Work in Child Development I & II (5-3) For students employed in the field) *Eng 28 Intermediate Reading & Composition 3	
CD 2 Early Childhood Principles and Practices 3 CD 3 Creative Experiences for Children I 3 or CD 4 Creative Experiences for Children II 3 CD 10 Child Health 3 CD 11 Home, School and Community Relations 3 CD 42 The Child in a Multi-Cultural Society 3 "CD 22 & 23 Practicum in Child Development I & II (4-4) or "CD 81 & 82 Field Work in Child Development I & II (5-3) (For students employed in the field)	9
CD 3 Creative Experiences for Children I or CD 4 Creative Experiences for Children II 3 CD 10 Child Health 3 CD 11 Home, School and Community Relations 3 CD 42 The Child in a Multi-Cultural Society 3 "CD 22 & 23 Practicum in Child Development I & II (4-4) or "CD 81 & 82 Field Work in Child Development I & II (5-3) (For students employed in the field)	
CD 10 Child Health 3 CD 11 Home, School and Community Relations 3 CD 42 The Child in a Multi-Cultural Society 3 "CD 22 & 23 Practicum in Child Development I & II (4-4) or "CD 81 & 82 Field Work in Child Development I & II (5-3) (For students employed in the field)	
CD 11 Home, School and Community Relations 3 CD 42 The Child in a Multi-Cultural Society 3 "CD 22 & 23 Practicum in Child Development I & II (4-4) or "CD 81 & 82 Field Work in Child Development I & II (5-3) (For students employed in the field)	
CD 11 Home, School and Community Relations 3 CD 42 The Child in a Multi-Cultural Society 3 *CD 22 & 23 Practicum in Child Development I & II (4-4) or *CD 81 & 82 Field Work in Child Development I & II (3-3) (For students employed in the field)	
*CD 22 & 23 Practicum in Child Development I & II (4-4) or *CD 81 & 82 Field Work in Child Development I & II (3-3) (For students employed in the field)	
*CD 22 & 23 Practicum in Child Development I & II (4-4) or *CD 81 & 82 Field Work in Child Development I & II (3-3) (For students employed in the field)	
(For students employed in the field)	
*Eng 28 Intermediate Readon & Composition 9	
(or higher)	
Plus any course from the following:	
CO 30 Infant Studies 2	
*CD 38 Administration of Early Childhood Programs I 3	
CD 46 School Age Programs 3	

^{*}These courses have a prerequisite

Child Development Certificate' Associate Teacher

With additional G.E. units and required experience, the student will be eligible for the Child Development Permit as defined under Title 5. Meeting this requirement will enable the student to teach in federal and state preschool programs. All courses must be completed with a grade of "C" of better,

REQUIRED COURSES		-0.7
CD1	Child Srowth and Development	3
CD 2	Early Childhood Principles and Practices	- 3
CD3	Creative Experiences for Children I	3
CD 4 CD 10	Creative Experiences for Children II	3
375.0711	Child Health	3
CD 11	Home, School and Community Relations	3
*CD 22 & 23	Practicum in Child Development I & II	(4-4)
*CD 81 8 82	Field Work in Child Development I & II (For students employed in the field)	(3-3)
	se from the following:	
CD 30	Infant Studies	3
*CD 38	Administration of Early Childhood Programs	3
CD 42	The Child in a Multi-Cultural Society	- 3
CD 46	School Age Programs	3

^{*}These courses have a prerequisite

Director, Preschool (Cert. B)

Completion of 15 units meets the Scare Department of Social Services minimum requirements for Child Care Center Director in private, for-profit centers as defined in Title 22. All courses must be completed with a grade of "C" of bener.

REQUIRED COURSES		
CD1	Child Growth and Development	UNITS
CD 3	Creative Experiences for Children I or	3
CD 4 CD11	Crestive Experiences for Children II Home, School and Community Relations	3
CD 38	Administration of Early Childhood Programs I is from the following:	3
CD 2 CD 10	Early Childhood Principles and Practices	3
CD42	Child Health The Child in a Multi-Cultural Society	3

Infant Care Teacher (Cert. C.)

Completion of 15 units meets the State Department of Social Services minimum requirements for Infant Care Teacher in private, for-profit and nonprofit centers as defined in Title 22. All courses must be completed with a grade of "C" of better.

REQUIRED COURSES	The state of the s	-
CD 1 CD 3	Child Growth and Development Creative Experiences for Children I	UNITS 3 3
CD 4 CD11 CD 30	Creative Experiences for Children II Home, School and Community Relations Infant Studies	3 3 3
Plus, sny cour CD 2 C010 C042	ss from the following: Early Childhood Principles and Practices Child Health The Child in a Multi-Cultural Society	3 3 3

School Age Programs Teacher, Day Care (Cert. D.)

Completion of 15 units meets the State Department of Social Services minimum requirements for Child Care Genter School Age Programs Teacher/Aide in private, for-profit and non-profit centers at defined in Tale 22. All courses must be completed with a grade of "C" of better.

REGL	RRED COURSE	S The state of the	The same of
	CD1		UNITS
		Child Growth and Development	3
	CD 3	Creative Experiences for Children I or	3
	CD 4	Creative Experiences for Children II	3
	CD11	Home, School and Community Relations	9
	CD 45	School Age Programs	3
	Plus, any c	ourse from the following:	
	CD 2	Early Childhood Principles and Practices	3
	CO10	Child Health	-
	CD42	The Child in a Multi-Cultural Society	2 "

Preschool Certificate A

Completion of 12 units meets the State Department of Social Services minimum requirements for Child Case Center fully qualified teacher in private, for-profit centers as defined in Title 22. All courses must be completed with a grade of "C" of better. All courses must be completed with a grade of "C" of better.

REQUIRED COURSES		Dine
CD 1 CD 2 CD 11	Child Growth and Development Early Childhood Principles and Practices Home, School and Community Relations	UNITS 3 3
Plus, sny cour	rse from the following:	
CD 4	Creative Experiences for Children II Creative Experiences for Children II	3

Computer Science

Associate Degree Programs

The computer science department offers courses and curricula in several areas of emphasis in the computer field. The student may elect so complete the essure work required to transfer to a four-year institution or may complete an occupationally oriented two-year curriculum. Students interested in completing the first two years of a bachelor's degree program should consult a enember of the computer science staff or request copies of the transfer curricula from the department chairperson's office.

The department offers three areas of specialization at the associate degree level. They are Programming for Business, Pyogramming for Camputer Science, and Computer and Network Technology. Associate degree camerals require the completion of a specific pattern of course work. Any substitutions or variations must have prior approval of the department.

These occupational programs MAY NOT constitute the first two years of a Bachelor's degree transfer program in these fields. Consult a counselor for transfer requirements.

PROGRAMMING FOR BUSINESS

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

Curriculum prepares student in 2 years to enter the job market as a business programmer.

NOTE: Mash 115 or 1 year of high school algebra with a grade of "C" or better is a required preroquinte to becoming a computer science major. Verification required upon request.

CORE COURSES

FIRST SEMES	TFR	STIMU
Co Sci 501	Introduction to Computers & Their Uses	3
² Cu Sci 500	Introduction to Programming	1
Co Sci 507	Programming Logic	3
1277	Language & Rationality;	
	General Education (English composition)	3
	'General Education	3
SECOND SEM	IESTER	
Co Sci 530	Microcomputer Application Software	- 3
Co Sci 551	Introduction to the Internet and the	1
	World Wide Web	
Co Sci 572	Introduction to Personal Computer	3
	Hardware and Operating Systems	
Acctg 1	Introductory Accounting I	5
1000	General Education	3
THIRD SEME	STER	
CoSci 508	Visual BASIC	3
Co Sci 533	Advanced Microcomputer Applications	3
Co Sci 587	Introduction to Computer Networks	
	Technical Elective	. 3
	General Education	3
FOURTH SEN	IESTER	
Co Sci 515	Beginning COBOL Programming	3
Co Sci 541	Advanced Database Programming	- 3
	for Windows	Total I
Co Sci 579	Wide Area Network Management	3
	Technical Elective	3
	General Education	1

See Catalog, Graduation Plan B. See Pierce counselor for adviscment.

Satisfies General Education requirement, Plan B-D2

Technical Electives: Change one of the following sequences

1) Co Sci 576 and Co Sci 581, 2) But. 1 and Speech Camm. 101

30 Co Sci 539 and Co Sci 540 40 Co Sci 539 and Co Sci 552

Certificate Programs

Prevequisites: Math 113 or one year of high school algebra with a grade of "C" or lotter

A minimum of 12 units must be taken in the Computer Science Department at Pierce College within the last 5 years.

CERTIFICATE IN MICHI	COMPUTERS AND SMALL BUSINESS S	YSTEMS
		UNITS
Co Sci 501	Introduction to Computers	3
1Ce Sci 506	Introduction to Programming	3
	er .	
Co Sci 508	Visual BASIC	3
10a Sci 907	Programming Logic	3
Co Sci 530	Microcomputer Application Software	3
Co Sci 572	Jetraduction to Personal Computer	3
	Hardware and Operating Systems	
Co Sc 533	Advanced Microcomputer Applications	3
Co Sci 911	Cooperative Work Experience Education	1:
Acctg 1	Introductory Accounting	5
CERTIFICATE IN PROG	RAMMING FOR BUSINESS	1000
		UNITS
Co Sci 501	Introduction to Computers	3
Co Sci 508	Visual BASIC	
*Co Sci 507	Programming Logic	3
Co Sci 530	Microcomputer Application Software	3
Ca Sci 515	Beginning COBOL Programming	2
En Sci 500	Advanced Microcomputer Applications	3
Co Sci 541	Advanced Database Programming for	1
	Windows	
Co Sci 572	Introduction to Personal Computer Hardwi	are 3
	and Operating Systems	
Co Sci 587	Introduction to Computer Networks	3
Acctg 1	Introductory Accounting	5
	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	-
CERTIFICATE IN MILE	OCOMPUTER SPECIALIST I	UNITS
Co-Sti 500	Microcomputer Application Software	3
Ce Sci 951	Internet and the World Wide Web	1
Co Sci 572	PC Hardware and Operating Systems	3
Co Sci 533	Advanced Microcomputer Applications	3
	Total	10
CERTIFICATE IN MICH	OCOMPUTER SPECIALIST H	The state of
		UNITS
Co Sci SUI	Programming Logic	3
Co Sci 508	Visual Basic	3
Co Sci 541	Advanced Database Programming	3
W. W. 1889	Santa Austrian to Passenter Memority	

Introduction to Computer Networks

ñ

See course description for prerequisites.

Total

Co.Sci 587

PROGRAMMING FOR COMPUTER SCIENCE

Associate in Science Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

Curriculum prepares student for programming in a technical environment or transferring to a 4-year institution. See a Pierce countelor in the first semester for transfer education advisement.

The student must also contact the transfer institution to determine estimate level.

NOTEs Math 115 or one year of high school algebra with a grade of "C" or better it a prerequisite for this program. Verification is required upon request. However, Math 262 (Cakulus II) is a graduation requirement.

FIRST SEMES Co Sci 501 PCo Sci 506 PCo Sci 507	Introduction to Computers & Their Uses Introduction to Programming Programming Logic Language & Rationality, General Education (English Compositions)	UNITS 3 3 2
SECOND SEM	General Education	6
Co Sci 516	Beginning Computer Architecture	
Co Sc 539	and Organization	3
Math 261	Programming in C Calculus I	5
Philip	Symbolic Logic	3
	General Education	3
THIRD SEMES	STER	
Co Sci 536	Introduction to Data Structures	3
Co Sci 552	Programming in Juva	3
Math 262	Calculus II	5
	General Education	3
FOURTH SEMS	ESTER	
Co Sci 532	Advanced Data Structures and	
	Introduction to Databases	3
Co Sci 540	Object Driented Programming in C++	3
Co Sci 546	Advanced Congutar Architecture	
	and Organization	3
	Technical Electives	3
	'General Education	3

See Catalog, Gualuation Plan B. See Pierce consular for advisoment. Satisfies General Education Requirement. Plan B-D2.

Recommendationer Proficiency in typing or keyboarding, Technical Elections Co Sci 508, 530, 534, 572, 578, 587. Math 263, 270.

Certificate Program

All of these courses may be used to apply toward fulfillment of the requirements for an Associate degree in Programming for Computer Science.

Prerequisites: Math 115 or one year of high school algebra with a grade of "C" or better Verification required upon request.

Completion of the program listed below with a minimum of 15 computer science units taken at Pierce College within the last 5 years.

CERTIFICATE IN PROG	RAMMING FOR COMPUTER SCIENCE	
		UNITS
Co Sci 507	Programming Logic	3
1Co Sci 516	Beginning Computer Architecture and Organization	
Co-Sci 532	Advanced Data Structures and Introduction to Databases	
1Co Sci 536	Introduction to Data Structures	3
	minimization to Data Structures	2
CoSci 539	Programming in C	3
Co Sci 540	Object Oriented Programming in C++	3
Co Sci 548	Advanced Computer Architecture	
40.00	and Organization	3
Philip	Symbolic Lagic	3

See Catalog course description for prerequisites.

COMPUTER AND NETWORK TECHNOLOGY Associate in Science Degree Program

The intent of this program is to produce graduates with the balanced knowledge of hardware and software required to install, operate, maintain and trouble-shoot microcomputers, minicomputers and computer networks in a variety of work environments.

The microcomputer service technology certificate graduates will be prepared for entry level jobs in microcomputer dealerships and repair shops, as well as internal maintenance groups within large corporations, or as the handware specialist within a programming team.

Associate in Science graduates will be prepared to install, operate, maintain and trouble-shoot systems and networks for the service divisions of large computer manufactures and computer applications organizations.

NOTEs One year of high school algebra or Math 115 with a grade of "C" or better is a prerequisite for this program. Verification is required upon request.

FIRST SEMES	TER	UNITS
Co Sci 530	Microcomputer Application Software	3
U Co Sci 570	Fundamentals of Digital Computer Design	3
Co Sci 572	Introduction to Personal Computer	HIE.
17 c. c. com	Hardware and Operation Systems	2
Co Sci 575	Programming for Technical Applications	4
	General Education	3
SECOND SEMI	ESTER	
*Co-Sci 578	Microcomputer Logic, Design and	
	Programming	3
*Co-Sci 581	Microcomputer Upgrades and Repair	4
*CoSci 587	Introduction to Computer Networks	1
	General Education	8
THIRD SEMEST	TER	199
1Co Sci 576	Local Area Network Management	-
1Co Sci 579	Wide Area Network Management	2
1Co Sci 589	Introduction to Data Communications	3
	General Education	3
		3
	Technical Bective	3
FOURTH SEME	STER	
Co Sci 534	Operating Systems	3
'Co Sci 586	Computer Network Service and Support	4
	General Education	.3
	Technical Elective	73

See course description for prerequentes. Program does not necessarily constitute first two years of a bachelor's program

Technical Electives: Coone six (6) units in Computer Science clause chasen from

the following list: CaSci 508, 516, 533, 539, 546

Chanse six (6) units in Electronics classes chasen from the following list: Elect 4A. 4B, 64, 6B, 8A, 8B, 26, 27, 44, 60, 61.

Microcomputer Service Technology Certificate Program

This program was developed in cooperation with the Computer Technology advisory committee for students who wish to take a technical program to purpase themselves for employment in the computer technology field.

Prerequisite: Math 115 or one year of high school algebra with a grade of "C" or better. Verification required upon request.

P. P. 1999		UNITS
Co Sti 530	Microcomputer Application Softwere	3
1Co Sci 570	Fundamentals of Digital Computer Design	3
Co Sci 572	Introduction to Personal Computer	
	Hardware and Operation Systems	3
Co Sci 575	Programming for Technical Applications	4
Co Sci 578	Microcomputer Logic, Design	
	and Programming	
Co Sci 561	Microconguter Upgrades and Repair	- 5
'Co Sci 587	Introduction to Computer Networks	3

Satisfies General Education Requirement, Plan B-D2. Satisfies General Education Requirement, Plan B-A.

Network Technology Certificate

This program was developed in cooperation with the Computer Technology advisory committee for students who with to take a technical program to prepare themselves for employment in the computer network technology field.

		UNESS
Co Sci 576	Local Area Network Management	3
*Co Sci 579	Wide Area Network Management	3
*Co Sci 589	Introduction to Data Communications	3
1Co Sci 534	Operating Systems	3
Co Sci 586	Computer Network Service and Support	4

See Catalog description for prerequisites.

Electronics

TEC

Associate in Science Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

Representatives from the electronics industry and Pietze Gollege faculty have collaborated to design this course of study. Completion of this program prepares the student for employment as an electronics technician.

HNICAL REQUIREM	ENTS	UNITS
FIRST SEMEST	TER	
*Electrn 4A	Fundamentals of Electronics IA	3
Electrn 4B	Fundamentals of Electronics IB	1
Bactrn 28	Electronic and Electro-Mechanical Draftin	g1 2
Electrn 81	Projects Laboratory	1
	General Education	4
SECOND SEM	ESTER	
Electro 6A	Fundamentals of Electronics IIA	3
Electro 6B	Fundamentals of Electronics IIB	1
Electro BA	Electron Devices A	3
Bectm 8B	Electron Devices B	1
Electrn 81	Projects Lisboratory	1
	¹ General Education	9
THIRD SEMES	TER	
Electro 26	Linear Circuits	1
Electro 63	Circuit Analysis Laboratory	1
Electro 44	Communications Electronics	3
Electrin 45	Communications Bactronics Laboratory	1
Electro 72A	Digital Circuits IA	3
Electro 72B	Digital Circuits 18	CO.
Electro 81	Projects Laboratory	1
	General Education	
FOURTH SEMI	ESTER	
Bectm 48	Integrated Circuits	4
Electrn 74A	Digital Circuits IIA	3
Electro 74B	Digital Circuits IIB	21
Bectm 60	Microwave Fundamentals	3
Electro 61	Microwave Fundamentals Laboratory	199
	General Education	3

For additional electives, see Electronics Department Chairperson. See Catalog descriptions for presequinites and corequisites.

See General Education Requirements, Plan B.

²Meets General Education Requirements, Plan B. Part A.

Certificate Programs

In collaboration with industry, the College staff has developed the program as shown below which leads toward a Certificate in Electronics with a specialization option in Digital, Communications, or Analog electronics. The critificate program has been designed to provide students with marketable skills at the completion of 24 units. If they wish, students may continue their inducation and obesin an Associate in Science Degree. To complete the Certificate Program, the core courses and one specialization option must be completed.

		UNITS
Electro 4A	Fundamentals of Electronics IA	3
Electro 4B	Fundamentals of Electronics IB	1
Electro 6A	Fundamentals of Electronics IIA	2
Electro 68	Fundamentals of Electronics IIB	1
Bestm 8A	Electron Devices A	3
Electris 8B	Electron Devices B	1
Electro 26	Electronic and Electro-mechanical Drafting	2
Electro 81	Projects Laboratory (1 Unit repeated twice)	109

DIGITA	LOPTION		
			UNITS
	Electri 72A	Digital Circuits IA	3
	Electro 72B	Digital Circuits IB	1
	Electrin 74A	Digital Circuits IIA	2
	Electro 748	Digital Circuits IIB	1
COMM	UNICATIONS O	PTION:	UNITS
	Electrn 44	Communications Electronics	3
	Electrn 45	Communications Electronics Laboratory	1
	Electro 60	Microwave fundamentals	2
	Electro 61	Microwave Fundamentals Laboratory	1
ANALE	G OPTION:		1000
			UNITS
	Electro 26	Linear Circuits	3
	Electro 63	Circuit Analysis Laboratory	1
	Electro 48	Integrated Circuits	

French

The main objective of the French program is to enable the students to acquire compenence in the ability to understand, speak, read, and write French, and to develop an understanding and appreciation of the multicultural French-speaking world.

Students are placed in French courses according to their years of previous study. In general one year of high-school French is equivalent to one sentence at Pierce. Native speakers are encouraged to entroll in French 4, 5, or 6.

All French courses are taught primarily in the language. However, the instructor may choose to clarify certain concepts in English when necessary. By the end of the first year, students are able to use the basic structure of the language and the practical vocabulary learned to converse on everyday topics, as well as to read and write at an elementary level.

French 3 combines with French 8 (Convenutional French) to increase oral proficiency and also continues to raise the students' ability to read and write.

In French 4, 5, and 6, anadoms gradually acquire more ease in expressing themselves orally and in writing. Combining a review of grammar with discussions and analysis of literary texts of increasing difficulty, these courses give students a broad overview of France and French-speaking countries and prepare them to live abroad.

Seudents are encouraged to participate in the International Education summer or semester program of study in Paris offered by the Los Angeles Community College District.

Career Opportunities

French is adapted to careers in international business or trade, edecommunications, fashion, the goomset food industry, medical research, international law, diplomacy and the foreign service, serospace technology, as well as in the arts and the humanities.

Associate in Arts Degree

HEQU	IRED COURSES	STATE OF THE PARTY	Jane 1
			UNITS
Three	courses chosen for	om the following:	
	French 1, 2, 2, 4, 5, or 6	Benentary, Intermediate, Advanced French And	15
	French 101	French Language Laboratory (2 semesters)	2
78	French 8	Conversational French	2
	French 81	Practical French for Business Total	3 3 or 20

RECOMMENDED ELECTIVES:

(These courses can also be applied sowards General Education requirements under Graduation Plan A): Linguistics 1; English 203, 204; Anthropology 102; History 50; Art 102, 103; Humanities 12, 13.

Also recommended: International Business 1.

Industrial Technology -Automotive Service Technology

Associate in Science Degree

Faculty Advisor: B. L. Trinchero

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

FIRST SEMES	STER	UNITS
ASTI	Automotive Engines	5
ASTZ	Suspension, Brakes, and Power Systems	5
² Math 145	Technical Mathematics I	3
Health 10	Health Education	2
SECOND SEM	ESTER	
AST3	Engine Diagnosis and Tune-Up	5
AST4	Starting and Charging Systems/ Automotive	
	Electrical Circuits	5
AST32	Automotive Service Technology Projects	100
	Laboratory-Chassis and	
7 5853	Suspension Systems	1
Phys Ed	Physical Education Activity	1
Phys Sc 1	Physical Science I	3
THIRD SEMES	TER	
ASTS	Standard Transmissions, Dutches,	
	Drive Lines, and Differentials	2
AST6	Automatic Transmissions	5
AST7	Air Conditioning	3
AST34	Automotive Service Technology Projects	1000
	Laboratory - Electrical Circuits	2
English 28	Intermediate Reading and Composition	2
FOURTH SEME	STER	
AST20	Automotive Electronic Computer Control	
A PRESIDENT	Systems	1
AST21	Computer - Controlled Bectronic Fuel	
07	Injection Systems	3
ASTE	The Clean Air Car	3
AST36	Automotive Service Technology Projects	F
	Laboratory - Standard Transmissions	
	Dutches, Drivelines, and Differentials/	
	Air Conditioning	1
	General Education	6

Menn Natural Science Requirement for graduation general requirement.

Math 116, 115 or 125 may be inhititated. Any of these courses fulfille the
Communication and Analytical Ternking Graduation General Education
Requirement.

Certificate Program

For students who wish to complete a minimum of classes in one year to prepare for employment. A minimum of 44 units is required.

	STIME
A S T 1 Automotive Engines	K.
A S T 2 Suspension, Brakes and Power Systems	5
AST3 Engine Diagnosis and Tune-Up	5
A S T 4 Starting and Charging Systems/ Automotive	-
Electrical Cecuity	5
A S T 5 Steindard Transmissions, Clutches, Drive	3
Lines, and Differentials	-
AST6 Automatic Transmissions	97.
AST7 Air Conditioning	5 3
	3
A S T 20 Automotive Electronic Computer Control Systems	
	2 .
A STATE OF THE STATE OF THE PARTY OF THE PAR	
A S T Z3 The Clean Air Car	3
	3
A S T 32 Automotive Service Technology Projects	
Laboratory - Chassis and	
Suspension Systems	Total
A S T 34 Automotive Service Technology Projects	
Laboratory - Electrical Circuits	7
A S T 36 Automotive Service Technology Projects	
Laboratory - Standard Transmissions,	
Clatches, Drivelines and Differentials/	
Air Conditioning	

Industrial Technology -Drafting - Mechanical

Associate in Arts Degree

Faculty Advisor: L.W. Humphrry.

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

This associate degree prepares the student for entry level employment as a draftsperson in engineering and manufacturing industries, at well as for positions examing with federal, state, and local government agencies. With the addition of practical industrial experience, draftspersons may eventually become designers in their chosen area of concentration.

	The same of the same	in area on concentration.	
	FIRST SEMES	TER	UNITS
	Ind Tek 105	Industrial Print Reading	
	Ind Tek 110	Mechanical Computer-Assisted Drafting I	3
	Ind Tek 112	Applied Technical Drafting I	- 3
	Ind Tek 130	Technology of Metal Machining Process I	
	177.000	General Education	3
	SECOND SEM		
	Ind Tek 115	Mechanical Computer-Assisted Drafting II	
	Ind Tek 143	Fundamentals of CNC Technology	3
	Math 146	Technical Mathematics II	1
	Ind Tek 212	Applied Technical Drafting II	4
	10000000	General Education	
	-		3
	THIRD SEMES		
	Ind Tek 205	Technical Descriptive Geometry	3
	Ind Tek 210	Mechanical Computer-Assisted Dealting III	1
	Ind Tek 215	Mechanical Computer-Assisted Drafting IV	3
	Ind Tek 242	Introduction to CAD/CAM	3
		General Education	3
	FOURTH SEME		-
	Ind Tek 318	Mechanical Computer-Assisted Drafting V	-
	Ind Tek 312	Applied Technical Drafting III	1000
	Ind Tek 315	Mechanical Computer-Assisted Drafting VI	100
		General Education	-
	en aller	Contract of	
-77	I want he when		

Math 115 may be subarrated for Math 146.

Carefully study Graduation Plan B under Graduation Requirements in the course catalog when considering alternative Gen Ed courses.

Certificate Program

This certificate peogram is designed for students withing to complete only the sechnical requirements in drafting.

FIRST SEMESTI	R	UNITS
Ind Tek 110	Mechanical Computer-Assisted Drafting I	3
Ind Tak 112	Applied Technical Drafting I	- 4
Ind Tek 115	Mechanical Computer-Assisted Drafting II	3
SECOND SEME	STER	
Ind Tek 210	Mechanical Computer-Assisted Drafting III	3
Ind Tek 212	Applied Technical Drafting II	4
Ind Tek 215	Mechanical Computer-Assisted Drafting IV	3
THIRD SEMEST	EN	
Ind Tek 310	Mechanical Computer-Assisted Drafting V	3
Ind Tek 312	Applied Technical Drafting III	4
Ind Tek 315	Mechanical Computer-Assisted Drafting VI	-3

Industrial Technology - General

Certificate Program

For students who wish to complete a minimum of classes to prepare for employment. A minimum of 25 units is required. This program may be completed in one year.

	UNITS
IT 110	Mechanical Computer-Assisted Drafting 1 3
IT 120	Basic Woodworking 4
IT 130	Technology of Metal Machining Processes 1 3
IT 140	Fundamentals of CNC Technology 3
IT 161	Oxy-Acetylene Welding I 3

A minimum of 9 additional units must be completed. You may select 2nd and 3nd level courses offered in the disciplines listed above or any courses offered in Auto Service Technology.

Industrial Technology -Numerical Control Programming

Associate in Science Degree

Faculty Advisor: R. D. Smetter

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

Numerical Control is a system (sometimes referred to as CAM - Computer-Aided Manufacturing) using specially prepared instructions, developed by the N/C Programmer, to control the operation of various manufacturing equipment such as machine tools, inspection machines, woodworking machines, laser machines, and robots. The following associate degree is offered at the suggestion of the Industry Advisory Comminee for Numerical Control. General Education requirements follow Graduation Plan B in this catalog. Courses may be taken in any sequence as long as the prerequisites are met. Students majoring in this area must meet each semester with Numerical Control Faculty Advisor R. D. Smetzer.

FIRST SEMEST	ER	UNITS
	*Technical Elective	5
¹Ind Tek 105	Industrial Print Reading	3
Ind Telt 136	Technology of Metal Machining Processes	1 3
Ind Tek 148	Fundamentals of CNC Technology	3
Math 146 -	Technical Mathematics II	13
(The above ma	y provide entry level employment opportunitie	18.7

Ind Tak 230	Technology of Metal Machining Processes II	3
Ind Tek 244	CNC Programming and Machine	
	Operation - Lathe	3
	General Education	3
	*Bective	3
THIRD SEME	STER	
Ind Telk 242	Introduction to CAD/CAM - Numerical Control	2
Ind Tek 248	CNC Programming and Machine Operation - Mill	3
Ind Tek 330	Technology of Metal Machining Processes III	2
*Gen Ed	Natural Science	P
FOURTH SEM	ESTER	
	*Industrial Technology Course	13
35Gen Ed	Language and Flationality	13
	General Education	4

Drafting and Tooling Design Majors completing this Degree or Certificate may substitute Ind Tek 110.

²Phys Sc.1, Electra 2, 4 are recommended.

Off Adm 32 is recommended for D1 of Graduation Plan B. See Certified Plan for transfer to a 4-ye institution. Computer languages and Electronics also

Suggested electives: Num Can 185, 285, 385 are strongly recommended; Ca Sci 506, 508, 513; Coop Ed; Math 260, Phil 6, 9; Speech 103. Carr in selection could lead to a second correficate. See Ron Soutteer, NC Faculty Advisor. A computer science language class is recommended. Language and Rationality units total 6. They can be taken in any combination. See note 4. See Advisor for proper selection to complete major.

Minimum of 2 units in Ind Tek 110.

Certificate Program

The Certificate Program is designed for students wishing to complete only the technical requirements of the Numerical Control Programming Associate Degree program, secure employment, and possibly complete the Numerical Conerol Programming Associate Degree while employed and amending Pierce College part time. It is also designed to enable mechanical drafting, tool design, machine shop, and other majors to secure certification in Numerical Programming as a second area of expertise. The notes applying to the Associate Degree apply also to the certificate program. Courses may be taken in any sequence as long as the prerequisites are met. However, the first five courses listed provide a possible entry level employment package. Students working on this certificate program must meet each semester with Ron Smetzer, NC Faculty Advisor.

	UNITS
"Ind Tek 105	Industrial Print Reading 3
Ind Tak 130	Technology of Metal Mechining Processes 1 3
Ind Tek 140	Fundamentals of CNC Technology 3
(The above p	rovides a possible entry level employment package.)
Ind Tek 230	Technology of Metal Machining Processes II 3
Ind Tek 242	Introduction to CAD/CAM 3
Ind Tok 344	CNC Programming and Machine
	Operation - Lather 3
Ind Tek 248	CNC Programming and Machine
	Operation - Mill 3
Ind Tek 330	Technology of Metal Machining Processes III 3
	Pindustrial Technology Course 3.
Much 146	Technical Mathematics II 3

Drafting or Tooling Design Majors completing this certificate may substitute Ind

See Advisor for proper selection to complete major.

Credit By Examination

Students may enter the program at a level appropriate to their previous industrial experience and training. See Credit by Exam Policies in this catalog.

Industrial Technology - Welding

Faculty Advisor: L. W. Humphrey

The Welding program will provide intensive vocational training in all common types of welding. The student has the opportunity to prepare for certification. in oxy-acetylene, shielded metal arc, nongsten inert gas are welding, and metallic inert gas are welding methods and can earn a Certificate of Completion.

Certificate Program

For students who wish to complete a minimum of classes to prepare for employment. A minimum of 34 units is required.

200 2 4 444	A CALL TO THE PARTY OF THE PART	UNITS
Ind Tek 161	Dxy-Acetylene Welding I	3
Ind Tek 162	Dxy-Acetylene Welding II	3
Ind Tek 223	General Metallurgy I	4
Ind Tek 261	Arc Welding I	3
Ind Tek 262	Arc Welding II	3
Ind Tek 361	Inert Gas Arc Welding I	3
Ind Tek 362	Inert Gas Arc Welding II	3
Ind Tek 461	Advanced Arc Welding I	3
Ind Tek 452	Advanced Arc Welding II	3
Math 145	Technical Mathematics I	2
Math 146	Technical Mathematics II	1

Industrial Technology -Woodworking

Faculty Advisor: C.H. Mull

Certificate Program - Woodworking/Cabinetmaking

A Section	SECVINE VIEW	UNITS
Ind Tek 120	Basic Woodworking	4
Ind Tek 220	Machine Woodworking	32
Ind Tek 320	Cabinetmaking &	4
	Milwork Technology	
And Telk 222	Painting and Finishing	. 2
Ind Tek 420	Furniture Repair and Ratinish	2
Mgeet 13	Small Business Management I	3
0tf Adm 77	Microcomputer Accounting for the	
	Electronic Office	3
Market 1	Principles of Selling	3
find Tel: 110	Mechanical Computer-Assisted Drafting I	1
And Tak 115	Mechanical Computer-Assisted Drafting II	3
	The state of the s	

Italian

The main objective of the Italian program is to enable the students to acquire compenence in understanding, speaking, reading and writing the Italian language. The objective of the program is also to develop an understanding and appreciation of the culture, history and literature of Italy.

Students are placed in Italian courses according to their previous study. In general one year of high-school Italian is equivalent to one semester at Pierce. Native speakers are encouraged to enroll in Italian 4, 5, or 6,

All Italian courses are taught primarily in the language. However, the instructor may choose to clarify certain concepts in English when necessary. By the end of the first year, students are able to use the basic structure of the language and the practical vocabulary learned to converse on everyday topics, as well as to read and write at an elementary level.

Italian 3 combines with Italian 8 (conversational Italian) to increase oral profesency and also continues to raise the students ability to read and write.

In Italian 4, 5, 6, students gradually acquire more ease in expressing themselves orally and in writing. Combining a review of grammar with discussion and analysis of literary texts of increasing difficulty, these courses give students a broad overview of Italy and the Italian people and prepare students to live. abmad.

Students are encouraged to participate in the International Education summer or semester program of study in Florence offered by the Los Angeles. Community College District.

Career Opportunities

Iralian will enhance careers in international business or trade, fashion, medical research, the gournet food industry. Italian is especially desirable for students of clause or opera music, art and humanities,

Associate in Arts Degree

REQUIRED COURSES		The latest
		UNITS
Three courses chosen for	ion the followine:	
Italian 1, 2, 3,	Dementary, Intermediate,	
4.5, or 6	Advanced Italian	15
	And	The second
Italian 6	Conversational Italian	9
	Total	17

RECOMMENDED ELECTIVES:

(These courses can also be applied sowards General Education requirements under Graduation Plan A) Linguistics 1; English 203, 204; History 50; Anthropology 102: Art 102, 103: Humanities 12, 13,

Also recommended: International Business L.

Journalism

See also Photojournalism

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

This program was prepared with the ecoperation of the Pierce College Journalism Advisory Committee, made up of professionals from the print media and from broadcasting and from public relations. It is designed for snalents who plan to enter those professions after two years of college. In addition to the A.A. degree, a certificate of achievement as a journalism major is awarded to the student upon graduation.

REQUIRED AREA SUBJECTS.

Journal 100	Continue of the Continue of th	UNITS
Usurnal 101	Social Values in Mass Communications	3
Journal 202	Collecting and Writing News	3
	Advanced Newswriting	3
Journal 215	Copyreading and Headline Writing	2
Journal 218	Practical Editing	3-3
Photo 10	Beginning Photography	3
Photo-20	Beginning Photojournalism	4

AREA ELECTIVE SUBJECTS (6 UNITS MINIMUM) RECOMMENDED ELECTIVES

		UNITS
Art 500	Introduction to Design	2
Coop Ed	Cooperative Work Experience Education	1
English 101	College Reading and Composition I and/or	- 5
English 28	Intermediate Reading and Composition	2
English 102	College Busines and Comparison	-
Journal 108	College Reading and Composition II	2
	Article Writing	3
Journal 217	Publication Laboratory	2
Journal 219	Techniques for Staff Editors	1
Journal 220	Magazine Editing	1
Photo 11	Advanced Photography	100
Photo 12	Advanced Photographic Techniques	-
Photo 16	Fundamental Commercial Photography	1000
Photo 17	Introduction to Color Photography	100
Photo 21	Name The Control of t	100
	News Photography	4
Photo 27	History and Aesthetics of Photography	0.5
Pub Rel 1	Principles of Public Relations	3
	Shorthand (any)	- 9
	Typewriting (any)	

GENERAL EDUCATION - SELECT 12 UNITS

See graduation requirement action.

Journal 101 meets the graduation general education requirement of section D. L. Photo 10' meets the graduation general education requirement of Section C.

Languages (Modern)

Associate in Arts Degree

Associate in Arts Degree programs in the different languages are fixed separately under the following headings:

American Sign Language/Interpreting

French

Italian

Spanish

The Associate in Arts Degree in language may be used as undergraduate preparation for transfer to a Baccalaureate program at a four-year institution. It can also serve as proof of demonstrated competence in another language, and thus expand job opportunities in international business and trade, travel, translating, teaching, and government. Another language also provides valuable background for those pursuing studies in art, music, cinema, literature, and history.

Latin American Studies

The considerable value of an understanding of Latin America is generally evident today. The Latin American Studies Program offers a bund and flexible intendisciplinary approach designed to provide a comprehensive understanding of Latin America. The curriculum leads to the Associate in Arts degree with a mujor in Latin American studies that transfers to private and public four-year enligges and universities.

This major can lead to careers in government, foreign service, law, international business, journalism and many other fields after obtaining the Bachelor of Arts and/or Master of Arts degrees.

The following areas of knowledge are central to the Associate's degree in Latin American studies:

- knowledge and understanding of the major historical, cultural, social, political, and economic problems facing the Latin American community
- knowledge of chief historical factors that gave rise to existing institutions and processes.
- an informed awareness of literature, art, and music in Latin America. including familiarity with the work of several recognized Latin American artists and authors
- In addition, students completing the degree in Latin American studies are expected to acquire
- reading and speaking ability in Spanish;
- the ability to engage in thoughtful dialogue about Latin America with educated Latin Americans;
- the ability to locate Latin American ideas, historical events, and cultural phenomena in the Latin American context from which they originate:
- the ability to communicate competently in effective English princ

REQUIREMENTS FOR ASSOCIATE IN ARTS DEGREE

Satisfaction of the regular transfer and college requirements for the Associate Degree. Concact the Counseling Office for additional information.

- Demonstrated proficiency in Spanish (successful completion of Spanish 4 or higher, Spanish 101, and Spanish 27).
- A total of 24 hours from designated courses. Of these 24 hours, 9 must be in the area of social sciences (History 5 & 6 and Spanish 10) and 6 in the area of humanities (Spanish 12, 15, 25, or 26) with the remaining 9 in Spanish proficiency courses.
- In addition, students may elect to take some of the breadth courses offered in the college including Anthropology 102 and Geography 2 or

Latin American studies majors are strongly recouraged to include a study abroad semester or summer in their academic program. For further information concerning these programs abroad, contact Dean Paul Whalen in Academic Affairs at 719-6444.

Associate in Arts Degree

REQUIR	RED CORE CURR	REULUM	
	The state of the s	ALL THE STREET STREET	UNITS
	History 5	History of the Americas I and	3
	History 5	History of the Americas II	3
	Spanish 4	Intermediate Spanish it or higher	50
	Spanish 101	Spanish Language Laboratory	- 1
	Spanish 27	Cultural Awareness through	
		Advanced Conversation	3*
	Spenish 10	Latin-American Civilization	3"
	Two courses f	from the following:	g.
	Spanish 12	Contemporary Mexican Literature or	-3
	Spanish 15	Great Books of Latin American Literature or	3
	Spanish 25	Spanish American Short Story in Translation of	3
	Spanish 26	Understanding Latin America through Film	3

RECOMMENDED BREADTH ELECTIVES

Anthro 102	Haman Ways of Life: Cultural Ambropology	UNITS
Geography 2	Cultural Elements of Geography	3
	Geography of the Americas Introduction to Geography of Latin America	

Students are encouraged to include a study abroad semester or summer in their academic program.

Faculty Advisors

Prof. Thomas E. O'Des	Phone	719-6452	Faculty Office 3104
Prof. Sheila Williams	Phone	347-0551	Faculty Office 3004

Liberal Arts

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

This program is designed for anadeons who have not yet decided on a major field of study or who wish to sample a variety of subjects. The student must complete at least 30 semester units of general education requirements as listed in Graduation Plan A.

In addition, 18 semester units of degree-applicable courses are required. These may be taken in a variety of subject areas. A total of 60 units are required for the degree, of which 36 must be CSU transferable.

Educational Programs

Music

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

This program is designed for students desiring the Associate in Arts Degree in Music. Students planning to transfer should consult with a counselor regarding the elective provisions. Non-transfer students should use the elective provisions to take related courses.

FIRST SEME	STER	UNITS
Music 201	Harmony I	3
Music 211	Musicianship 1	2
Music 321	Elementary Plano I	3
	Performance Organization	2
	(Music 561, 531, 721, 741, 745)	
	General Education	- 6
SECOND SE	MESTER	100
Music 161	Introduction to Electronic Music	-
Music 181	Applied Music I	-
Music 202	Harmony II	2
Music 212	Musicianahip II	
Munic 250	Music Performance Workshop	5 3 2 5
	Performance Organization (see above)	1
	General Education	
THIRD SEME		
Music 121	SIER	
or 122	Marie Warrant Land	
Music 187	Music History and Literature I or II	3
Music 203	Applied Music II	5
Music 213	Harmony III	3
	Musicianship III	5 3 2 5 1
Music 250	Music Performance Workshop	5
	Performance Organization (see above)	
	General Education	- 6
FOURTH SEM	ESTER	
Music 121		
pr 122	Music History and Literature I or II	3
Music 183	Applied Music III	5
Music 250	Music Performance Workshop	5 5 1 .
	Performance Organization(see whove)	1 .
	General Education	9
		100

Nursing

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

Los Angeles Pierce College offers an Associate in Acts Degree Nursing Program accredited by the California Board of Registered Nursing and the National League for Nursing. The graduate is prepared to function as an entry level nume. Upon completion of the prescribed curriculum, the graduate is qualified to apply for licensure as a registered muse in the State of California.

Nursing students receive clinical experience concurrently with classroom instruction. Numing faculty reach and supervise clinical experiences. Local hospitals and other community health care agencies provide the clinical facilities where moderns under supervision administer direct nursing case to patients. Students must provide their own transportation.

Steadents must first be admitted into the Nursing program before they may take nursing courses. Details are available in the Counseling and Nursing **Дерантения**.

The following programs are also available for qualified individuals weking. career mobility: LVN-to-RN, LVN 30 Unit Option, Transfer and Challenge options, and Foreign Nume Graduute placement. These programs provide a certificate of complexion or an Associate in Arts degree with a major in Nursing. See the Department of Nursing for detailed information.

Portions of completed councework from this program may be applied toward the attainment of a bachelor's degree in nursing. See your counselor for advice and information on transfer and G.E. certification.

Students must complete all of the following general education prerequinites prior to entering the program:

GENERAL EDUCATION

Paych 1		UNITS
rayun (General Psychi or	3
Psych 6:	Human Behavior	3
Anatomy 1 or Physiol 8	Intra to Human Anatomy	4
Physical 1 or 9	Intro to Human Physiol	4
Micro T	Intro to Micro	5
Micro 20	General Micro	4
English 101	College Reading and Composition	3
Soc 1	Intro to Sociology or	3
Soc 2	American Social Problems	3
Anthro 102	Human Ways of Life: Cultural Anthropology	3
	Physical Education Activity	3
Speech 191	Oral Communication I	3
	Humanities	3
Physiol 18	Env., Metabolic & N. Phy.	3

NURSING CURRICULUM

FIRST SEMES	TER	UNITS
Nursing 400	Fundamentals of Nursing	2
Nursing 402	Preparation for Drug Therapy	- 1
Nursing 407	Geruntic Nursing	3
Nursing 408	Mental Health Nursing	1
Nursing 401	Client Care Seminar I (optional)	1
SECOND SEM		
Nursing 403	Medical-Surgical Nursing I	5
Nursing 405	Psychiatric Nursing	4
Nursing 424	Client Care Seminar II (optional)	1
THIRD SEMES		
Nursing 404	Maternity Norsing	1
Nursing 406	Medical-Surgical Nursing II	-
Nursing 444	Client Care Seminar III (optional)	1
FOURTH SEMI	ALTO AND	ESTAN.
Nursing 414	Medical-Surgical Nursing III	
Nursing 415	Pedatrics Nursing	- 1
Nursing 441	History, Trends and Issues of Nursing	1
Nursing 417	Client Care Seminar IV (optional)	1

General education requirements may be satisfied at LAPC or by equivalent courses elsewhere. Health Education is not required for Nursing students. For further information concerning course planning contact the Counseling and Nursing Departments.

GRADE REQUIREMENTS

All nursing courses must be completed with a grade of "C" or better. The following required non-nursing courses must also be completed with a grade of "C" or better: Anaromy, Physiology, Psychology, Microbiology, English, Sociology/Anthropology, Nutrition and Speech. The Nursing curriculum for the Anociate Degree follows Geaduation Plan B.

Specific program policies governing grading, withdrawal, readminion, probation and dismissal are available in the Nursing Student Handbook and from the Department of Nursing.

The California Board of Registered Nursing may deny a license segulated by the Business and Pinfessional Code, Section 480, on such grounds at: being connected of a crime, acrs of dishonesty, fraud or decest, etc. Applicants who have questions regarding limitations related to licensure should contact the Board of Registered Numing.

Office Administration -General Administrative

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

Student may obtain an Associate in Arts degree in Office Administration by completing the courses shown in the following certificate peogram AND by usualying all the requirements shown in the college catalog under Graduation Requirements and Graduation Plan B.

Certificate Program

The General Administrative Program prepares students for employment in business, government, and educational offices using automated systems and procedures. Emphasis is placed on the development of language skills and the use of computer-based word processing, spreadsheet, data base, and accounting software programs in the performance of office functions. Completion of this program enables the students to qualify for intermediate office positions and lays the foundation for entry into office management positions.

FIRST SEMES	TER	UNITS
10ft Adm 2	Typewriting II	3
Off Adm 31	Business English	3
Off Adm 34	Business Vocabulary and Spelling	2
Off Adm 82	Microcomputer Suftware Survey	
	in the Office	3
SECOND SEM	ESTER	UNITS
Off Adm 84	Microcomputer Office Applications:	
	Word Processing	3
Off Adm 92	Computer Windows Applications	3 2
Off Adm 85	Microcomputer Office Applications:	
	Spreadsheet	3
Accts 21	Bookkeeping and Accounting I	3
THIRD SEMES	STER	
Off Adm 39	Word Processing: Keyboarding and Operat	Samo
Bus 1	Introduction to Business	3
20tt Adm 71	Universal Transcription	3
Off Adm 86	Microcomputer Office Applications:	
	Data Base	3
FOURTH SEM	ESTER	
Off Adm 32	Business Communications	3
DN Adm 78	Microcomputer Accounting Applications	
	for the Electronic Office	3
Off Adm 79	Word Processing Applications	3
Off Adm 97	Microcomputer Office Applications:	
	Introduction to the Internet	3

See course description for course personnities and coronities. Sendents who have not acquired the necessary skills should excell in OFF Adm 1 or 9.

Office Administration -Legal Office Procedures

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

Students may obtain an Associate in Arts degree in Office Administration by completing the courses shown in the following certificate program AND by smithing all the requirements shown in the college catalog under Graduation Requirements and Graduation Plan B.

Certificate Program

The Legal Program prepares students for employment in a legal office. Emphasis is placed on the development of language skills, the spellings and meanings of legal terminology, and the preparation of legal proceedings and cases. Extensive instruction in computer-based word processing programs and applications along with an introduction to other computerized office functions prepares students to obtain a position in an automated legal office.

FIRST SEMEST	FR	UNITS
'Off Adm 2	Typewriting II	3
Off Adm 31	Business English	3
Off-Adm 34	Business Vocabulary and Spelling	2
Dff Adm 82	Microcomputer Software Survey	
	in the Office	3
SECOND SEMI	ESTER	
Acctg 21	Bookkeeping and Accounting I	3
Busl	Introduction to Business	3
Off Adm 84	Microcomputer Office Applications:	
****	Word Processing	3
Off Adm 92	Computer Applications Windows	2
Off Adh 97	Microcomputer Office Applications:	
	Introduction to the Internet	3
THIRD SEMES	TER	
² Off Ann 23	Legal Secretarial Procedures 1	5
Off Adm 39	Word Processing: Keyboarding	3
Terra a service	and Operations	
POH Adm 71	Universal Transcription	3
FOURTH SEMESTER		
³ Off Adm 24	Legal Secretarial Procedures II	5
Off Adm 32	Business Communications	3
POff Adm 79	Word Processing Applications	.3
Dff Adm 81	Field Work in Office Administration	1

See ecourge description for course prerequitites and corequisites. Students who have not acquired the necessary skills should enroll in Off Adm 1 or 9.

Office Administration -Professional Secretary

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

Students may obtain an Associate in Arts degree in Office Administration by completing the courses shown in the following certificate program AND by satisfying all the requirements shown in the college catalog under Graduation Requirements and Graduation Plan B.

Certificate Program

The Professional Secretary Program propages students for supervisorial and managerial positions in business offices. This curriculum is directed roward enabling a candidate to successfully complete an examination developed and administered by the Institute for Certifying Secretaries, a department of Professional Secretaries International (PSI), in order to attain the designation Certified Professional Secretary. Completion of this curriculum, acceptable scores on the CPS Examination, and two to four years of successful secretarial experience qualify the student for CPS certification.

FIRST SEMESTER		UNITS
Acctg 1	Introductory Accounting I	5
'Off Adm Z	Typwriting II	3
Off Adm 31	Business English	3
Off Adm 84	Microcomputer Office Applications:	
	Word Processing	3

Offered in the Fall semester ands.

Offered in the Spring semester only

Offered in the Fall temester only.

Offered in the Spring semester andy.

SECOND SEA	RETER	
Bus 5	Business Law I	3
Mgmt 2	Organization and Management Theory	3
Off Adm 78	Microcomputer Accts Applications for the	197
	Electronic Office	- 3
Off Adm 85	Microcomputer Office Applications:	
	Spreadsheet	3
THIRD SEMES	STER	
Econ 2	Principles of Economics II	1
Off Adm 32	Business Communications	3
10th Adm 71	Universal Transcription	3
Off Adm 92	Computer Applications Windows	2
Off Adm 86	Microcomputer Office Applications: Data Ba	me 3
FOURTH SEM		
Off Adm 39	Word Processing: Keyboarding and Operation	nes 3
Bus 1	Introduction to Business	7
0ff Adm 79	Word Processing Applications	3
Off Adm 97	Microcomputer Office Applications	10
	Introduction to the Internet	. 3

See course description for course prerequisites and corpusates. Sendents who have not acquired the necessary skills should enough in Off Adm 1 or 9. *Offered in the Fall semester only.

Office Administration -Basic Computerized Accounting*

Certificate Program

The student is prepared for entry-level employment in business, government or educational offices. The student will utilize automated systems and procedures for bookkeeping and accounting applications and the processing of financial and managerial reports.

'Accty 1	Introductory Accounting	UNITS 5
*Acctig 21	Bookkeeping and Accounting 1	3
'0ff Adm 77	Microcomputer Accounting for the Biochronic Officer	
Off Adm 76	Microcomputer Accounting Applications	
Off Adm 85	for the Electronic Office Microcomputer Office Applications:	0113
10tt Adm 92	Spreadsheet Computer Windows Applications	2

Students would sake citize Off Adm 83 and Off Adm 92 or Off Adm 89.

Office Administration -Basic Computer Applications

Certificate Program

Students are prepared for employment in business, government, and educational offices using computerised systems and procedures. Emphasis is placed on developing skills in the use of word processing, spreadshers, and database software to perform routine office functions. Completion of this program enables underes to qualify for entry-level positions or an automated office and lays the foundation for further study and advancement in office occupations.

Off Adm 2	Typewriting II	UNITS
Off Adm 82	Microcomputer Software Survey in the Office	3
Off Adm 31 Off Adm 34	Business English Business Vocabulary and Spelling	3 2

Off Adm 39	Word Processing: Keyboarding and Operations	1
	or	
0ff Adm 84	Microcomputer Office Applications:	
	Word Processing	3.7
Off Adm 85	Microcomputer Office Applications:	
	Spreadsheet	3
Off Adm 88	Microcomputer Office Applications:	1000
	Data Base	1
Off Adm 92	Computer Windows Applications	2

Office Administration -Advanced Computer Applications

Certificate Program

(Pending State Approval)

After completing The Basic computer Applications Certificate Program, the student is prepared for entry-level positions in an automated office. The Advanced Computer Application Certificate adds three additional courses, which lay the foundation for obtaining positions requiring Internet, desktop publishing, and advanced skills in word processing.

CORE COURS	23	UNITS
Off Adm 2	Typwriting II	3
Off Adm 82	Microcomputer Software Servey	
	in the Office	3
Off Adm 31	Business English	3
Off Adm 34	Business Vocabulary and Spelling	3 2
Off Adm 39	Word Processing: Keyboarding	
	and Operations	-3
or		100
Off Adm 84	Microcomputer Office Applications:	
	Word Processing	3
Off Adm 85	Microcomputer Office Applications:	
	Spreadsheet	3
Off Adm 86	Microcomputer Office Applications:	
	Data Base	3
Dft Adm 92	Computer Windows Applications	3 2
ADVANCED C		
Off Adm 79	Word Processing Applications	1
Off Adm B8	Microcomputer Office Applications	3
Off Adm 97	Microcomputer Office Applications:	
	Introduction to the Internet	3

Office Administration -Basic Word Processing: Microsoft Word For Windows

Certificate Program

Students may obtain a basic word processing certificate in WORD by completing the courses shown below. Completion of the program provides the student with the skills required for entry-level employment in offices utilizing WORD software.

****	The state of the s	UNITS
*Off Adm 2	Typewriting II	3
Off Adm 31	Bosiness English	3
Off Adm 34	Business Vocahulary and Spelling	2
Off Adm 92	Microcomputer Software Survey	
	in the Office	3
:Off Adm 39	Word Processing: Keyboarding	3003
	and Operations	3
² 017 Adm 79	Word Processing Applications	3
Off Adm 92	Computer Windows Applications	2

See course description for course prerequisites and correquisites.

^{*}For an Associate of Arts Degree or a Two-Year Certificate in Accounting refer to listing under Business Administration: Accounting.

Offered Spring semester only.

Office Administration -Basic Word Processing: Wordperfect

Certificate Program

Seadents may obtain a basic word processing certificate in WordPerfect by complexing the courses shown below. Complexion of the program provides the madent with the skills required for entry-level employment in offices utilizing. WordPerfect software.

		UNITS
10tt Adm 2	Typewriting II.	3
Off Adm 31	Business English	3
Dff Adm 34	Business Vocabulary and Spelling	2
Off Adm 82	Microcomputer Software Survey	
	in the Office	3
Off Adm 84	Microcomputer Office Applications:	
	Word Processing	. 3
70ff Adm 79	Word Processing Applications	3
0ff Adm 92	Computer Windows Applications	2

See course description for course prerequisites and consquisites.

Office Administration - Office Communications

Certificate Program

Students are purpared for employment in business, government, and observed offices. Emphasis is placed on the development of typewriting and language skills to perform the following functions: transcribe business documents; compose and prepare simple letters, memorandums, and reports handle telephone inquiries; and complete forms that sequire typewritten impostes. Completion of this program enables students to qualify for entry-level office positions and lays the foundation for further study and advancement in office occupations.

		UNITS
0ft Adm 31	Business English	3
Off Adm 34	Business Vocabulary and Spelling	7
10ff Adm 2	Typewriting II	3 .
Off Adm 32	Business Communications	3
Off Adm 55	Career Skills for the Workplace 2000	3
20ff Adm 71	Universal Transcription	3
Off Adm 97	Micromputer Office Applications:	
	Introduction to the Internet	3

See course description for course prerequisites and corequisites.

Offered Fall semester only.

Photojournalism

Alm see Journalism

Associate in Arts Degree (An option under Journalism)

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

This program offers a combination of theory and practice so that the student can become a successful newspaper or magazine photographes. Publication job opportunities are open to graduates with this training. Laboratory work includes taking the picture, developing the film and printing the photograph. In addition to the A.A. degree, a certificate of achievement as a photojournalism major is awarded to the student upon graduation.

REQUIRED AREA SUBJE	ECTS	UNITS
Journal 100	Social Values in Mass Communications	3
		3
² Journal 101	Collecting and Writing News	
Journal 202	Advanced Newswriting	3
Photo 10	Beginning Photography	3
Photo 11	Advanced Photography	4
Photo 16	Fundamental Commercial Photography	3
Photo 17	Introduction to Color Photography	3
Photo 20	Beginning Photojournalism	4
Photo 21	News Photography	4
Photo 27	History and Aesthetics of Photography	
	Elective Area Subjects	6
RECOMMENDED ELECT	TVES	UNITS
Art 500	Secondard on to Planter	3
	Introduction to Design	3
Cinema 3	History of Motion Pictures and Television	3
Gnerra 18	Main Corrents in Motion Pictures	
Coop Ed	Cooperative Work Experience Education	3
English 28	Intermediate Reading and Composition or/and	3
English 101	College Reading and Composition I	3
English 102	College Reading and Composition II	- 3
Journal 108	Article Writing	3
Jaumai 217	Publication Laboratory	2
Journal 218	Practical Editing	3
Photo 12	Advanced Photographic Techniques	3 4
Pub Bel 1	Principles of Public Relations	-
PSO R81 1		
	Shorthand (ainy)	

GENERAL EDUCATION - SELECT 12 UNITS

See graduation requirement section.

Pluto 10 meets the graduction General Education Requirements, of Plan R. Part C.

Typewriting tarryt

Invented 101 meets the graduation General Education Requirements, of Plan B. Fart D1.

Pre-Engineering

Associate in Science Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

A student may receive an Associate in Science degree in pre-engineering by raking at least 36 units from the subjects loved below, completing 18 units in general education as per Plan B (see graduation requirements) and completing 60 units overall. This degree is designed for the student planning to transfer to a feat year college or university as an engineering major.

Just taking any 36 unin, however, will not qualify one for adminion to apper division Engineering. Students are urged to see a counselor for qualifying courses.

COURSES WHICH QUALIFY FOR THE 36 UNITS

Chem 101, 102 Co Sci 515, 516, 539

Math 261, 262, 263, 276, 275, plus any CSU transferable mathematics course which is prerequisite to Math 261.

Physics 37, 38, 39 Philosophy 9

Sendents must have at least 1 course from each of the categories above.

Students should see counselor or department chair for parlerred courses from above list.

³⁰ffered Spring semester units

Sign Language

See American Sogn Language in this section

Spanish

The main objectives of the program in Spunish are to develop competence in the ability to understand, speak, read, and write Spanish, and to provide through the knowledge of Spanish an understanding and appreciation of the language and culture.

Students are placed in Spanish courses according to their years of previous study. In general, one year of high school Spanish is equated to one semester of Pierce College work. Thus recent high school graduates with one, two, three, or four years of high school Spanish will enroll in Spanish 2, 3, 4, or 5 respectively. Exceptions to this basic placement formula may be made after consultation with the Spanish Faculty. Proficient native speakers should enroll in Spanish 4, 5, or 6,

All courses in Spanish, unless specifically stated, are taught in the foreign language. By the end of the first year, students attain mastery of the basic structure of the language and ability to convene on everyday topics as well as sead and write on an elementary level.

In the second year, Spanish 3 and 4, emphasis is put on gradually raising the student's ability to speak, read, and write. Spanish 27, Cultural Awareness. Through Advanced Conversation, combines with Spanish 4 to increase oral proficiency and prepares a student to live in a foreign country.

Spanish 5 and 6 stress composition and analysis and appreciation of many short linerary selections, short stories, and films.

The courses raught in English, including Latin American Civilization, Understanding Latin America Through Film, Contemporary Mexican Literature, Great Books of Latin Aroetica, and The Spanish American Short Story, combine a panoramic overview with a close look at a specific country or

Students are encouraged to participate in programs of study abroad during the summer or semester abroad peogram.

Career Opportunities

Spanish is particularly useful in international business or trade, community or social service, and in foreign service. Majoring in Spanish is excellent perparation for graduate and professional study in law, medicine, government, social welfare, international relations, journalism, or education.

Associate in Arts Degree

EQUIRED COURSES		
Spenish 4	Interest on County Landing	UNITS
- American A	Intermediate Spanish I or higher and	5
Spanish 101	Spenish Language Laboratory	7
Spanish 10	Latin-American Civilization	3
Spanish 27	Cultural Awareness through	
	Advanced Conversation	3
Any two of th	e following courses:	8
Spanish 12	Consumporary Mexican Literature	3
	or .	
Spanish 15	Great Books of Latin America or	3
Spenish 25	Spanish American Short Story	2
12 10 11	Of .	
Spanish 26	Understanding Latin America Through Film	3

HECO	MMENDED ELEC		-11.PC
	Anthro 102	Human Ways of Life: Cultural Anthropology or	2
	Ling 1 History 5	Introduction to Language and Linguistics History of the Americas I and	3
	History 6	History of the Americas II	3

Theater

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

This program is designed to meet the requirements of the Associate in Arts Degree and to provide instruction in theater history, Interature, acting, and technical stage work. Public performances of plays are given with opportunities for practical experience. Second semester students may participate in drama productions by enrolling in Theater 232, Play Production or Theater 250, Children's Theater.

FIRST SEMES		UNITS
Theater 100	Introduction to the Theater	3
Theater 240	Voice and Articulation for the Theater	3
Theater 270	Beginning Acting	3
Theater 342	Technical Stage Production	2
	10	
³ Theater 411	Costuming for the Theater	3
	General Education	1
SECOND SEM	ESTER	Clair
Theater 232	Play Production or	
Theater 250	Children's Theater Production	2 2
	Of The state of th	4.
Theater 252	Rehearsals and Performances	4
Theoter 271	Intermediate Acting	2 2 2
² Theater 342	Technical Stage Production	2
THOUGH DIE	technical profit Lubbocotti	-
*Theater 411	Costuming for the Theater	
11000000	General Education	3
	Elective	6
		3
THIRD SEMES		
Theater 110	History of World Theater	3
Theater 232	Play Production	2
	Of .	
Theater 250	Children's Theater Production	2
_ 1 1 1 1 1 1 1	or	
Theater 292	Rehearsals and Performances	2
Theater 273	Advanced Acting	2
Thestar 450	Beginning Stage Make-up	2
	General Education	5
FOURTH SEME	STER	
Theater 115	History of the American Theater	3
	Of	
Theater 125	Dramatic Literature	-
Theater 232	Play Production	3
All the second	br	4
Theater 250	Children's Theater Production	
A STATE OF THE PARTY OF	DL STORMER LIGHT PORT DOLL	2
Theater 292	Rehearsals and Performances	- 41
Theater 300	Introduction to Stage Craft	2
	General Education	3
	Elective	3
	And the second s	3

Recommended Electives: Theater 125, 225, 265, 422.

Mees Graduation General Education Requirement - Humanities

Prerequiite for Theater 232 - Play Production

May substinue Thosser 422

Recommended one semester Thester 342 followed by one semester of any costume

Transfer Program to CSUN (Courses to take at Pierce) Thester 100, 270, 271 or 273, Theater 300, 310, Theater 411, 450.

Theater - Costume Option

Associate in Arts Degree

Associate Degree programs DO NOT necessarily constitute the first two years of a program leading to a bachelor's degree.

FIRST SEMES	TER	UNITS
Theater 100	Introduction to Theater	3
Theater 270	Beginning Acting	3
Theater 300	Introduction to Stage Craft	3:
Theater 422	Applied Costuming for the Theater	2
	General Education	4
SECOND SEM	ESTER	
Theater 315	Introduction to Theatrical Scenic Dusign	-
Theater 422	Applied Costuming for the Theater	1
Theater 450	Beginning Stage Make-up	-
	Bectives	100
	General Education	1
THIRD SEMES	TER	
Theater 310	Introduction to Theatrical Lighting	1140
Theater 422	Applied Costuming for the Theater	
	General Education	1 2
	Bectives	4
FOURTH SEME		- 500
The state of the s		
Speech 101	Oral Communication I	3
Theater 342	Technical Stage Production	2
Theater 422	Applied Costuming	2
	Bectives	4
	General Education	3

Meets Graduation General Education Requirement Humanities May substitute Theater 411 Contaming for the Theater

Transfer Program to CSUN (Counci to take at Pierce)

Theater 100, 270, and one course from 271 or 273, Theater 300, 310, Theater 411, 450.

Theater -Technical Theater Option

Associate in Arts Degree

Amociate Degree programs DO NOT necessarily constitute the first two years of a progri

a handama ma	erroll to a narranton a sellate.	
FIRST SEMES	TER	UNITS
Theater 100	Introduction to the Theater	3
Theater 270	Beginning Acting	3
Theater 300	Introduction to Stage Craft	3
Theater 342	Technical Stage Production	2
	General Education	4
SECOND SEM	ESTER	
Theater 315	Introduction to Theatrical Scenic Design	2
Theater 342	Technical Stage Production	2
Theater 450	Beginning Stage Make-up	2
	Elective	2
	General Education	- 6
THIRD SEMES	TER	
Theater 310	Introduction to Theatrical Lighting	.1
Theater 342	Technical Stage Production	2
	Elective	4 6
	General Education	- 6
FOURTH SEMI	ESTER	
Speech 101	Oral Communication I	3
Theater 411	Costuming for the Theater	3
	Electives	- 6
	General Education	3

Meets Graduation General Education Requirement Humanities

Transfer Program to CSUN (Courses to take at Pierce) Theater 100, 270 and one course from 271 or 273, Theater 300, 310, Theater 411, 450.

Cooperative Work Experience Education

(CWFF) combines on the job experience with regular classroom instruction. It is designed to expand skills and knowledge and to improve self-understanding by integrating classroom study with planned supervised work experience. CWFF is based on the principle that well educated individuals develop most effectively by incorporating related education and work experience. These arractured experiences in business, industry, government and human services bring an enrichment to college studies which enhances the student's total development. It is called CWEE because the educational objectives are carefully planned and coordinated with the student's employer to provide realistic employment experience. The objectives are:

To pravide opportunity for the student to secure employment on a parttime or full-time basis.

To gain realistic work experience that is meaningfully related to the student's college study program.

To provide the student opportunity to acquire knowledge, skills, and artifudes essential for successful employment.

Benefits of Cooperative Work Experience Education

Has the opportunity to learn or improve employment skills under actual working conditions

Gains perspective on career goals through application of classroom theory

to "real life experience." Builds self-identity and confidence as a worker through individual attention given by instructor/coordinators and employers.

Has opportunities to test personal abilities in work environments.

Has a more realistic approach to the job market. Will gain a better understanding of human relations Will learn to apply Management By Objectives (MBO).

May refer to work experience education on future job applications.

Benefits financially while learning.

Can begin a career earlier.

Student Qualifications

THERE ARE TWO PLANS FOR CWEE

Parallel Plans

Pursue a planned program based on measurable learning objectives agreed to, with CWEE instructor/ Coordinatos. Be enrolled in no less than 7 units (including CWEE units).

During aummer sessions be enrolled in at least 1 other class in addition to CWEE.

Occupational Work Experience (Parallel Plan)

Hours by Arrangement, 1-4 units Prerequisites Approval of Work Experience Coordinator.

A program of on-the-job learning experience for students employed in a job related to an occupationally oriented major in which no work experience coone is offered. May be repeated three times for a maximum of 16 units. To receive credit a student must complete a minimum of seven units during the semester, including work experience.

General Work Experience (Panallel Plan)

Hours by Arrangement, each course 1-3 units

Prerequisites Approval of Work Experience Courdinator

A program of on-the job learning experiences designed to assist the student in developing occupational effectiveness. Employment need not be related to the student's vocational or occupational major. One unit of credit is earned for each 75 hours of paid employment or 60 hours of volunteer week, with a maximum of 3 units. To receive credit a student must complete 7 units, including work experience. During summer session one other course must be taken concurrently. May be repeated once for a total of 6 units.

May substitute Theater 422. Costume majors should consult with department that person for correct courses

Alternate Plan:

- Pursue a planned program based on measurable learning objectives agreed to, with the CWEE instructor/Coordinator.
- Have earned at least seven units of class work before enrolling.

Occupational Work Experience (Alternate Plan) Hours by Astangement 1-8 units Prerequisites Approval of Work Experience Coordinator

A program of on-the-job learning experiences which enables the student to attend college full-time one sensested and work full-time the following sensester. The work must relate directly to the student's educational goal and he/she must have satisfactority completed as least seven units of credit and may not be enrolled concurrently in more than one other course. Eligibility determined by regulations in Title V, California Administrative Code. May be repeated three times for a maximum of 16 units.

General Work Experience (Alternate Plan)

Hours by Arrangement, 1-6 units

A program of on-the-job learning experiences which enables the student to attend college full-time one termenter and work full-time the following semester. Under this plan the work need not retare directly to the student's educational goal. The student must have completed at least 7 units of credit and may not be enrolled concarrently in more than one other course. Eligibility for enrollment will be determined in accordance with applicable regulations contained in Title V, California Educational Code.

Cooperative Work Experience Education Credit Guide

CALIFORNIA STATE UNIVERSITY: APPROVED Cooperative Work Experience Education SUBJECT AREAS

Los Angeles Community College District policy provides that a maximum of eight (8) semester units in Cooperative Work Experience Education courses completed in the subject areas listed below may be applied toward the California State University 56 unit admission requirement.

Accounting Administration of Justice Afro-American Studies Agriculture Ast Conditioning

Technology
Aircraft Electronics
Technology
Animal Husbandry

Anthropology Architecture Art

Astronomy Aviation Maintenance

Technician Biology Botany Bruadcasting Business

Business Data Processing

Chemistry Chicano Studies Child Development Cinema

Commercial Arr Computer Maintenance Technician

Computer Science Information Technology Computer Technology Duity Husbandry Dratting

Economics Education Electronics Electronics Te

Electronics Technician Electronics Technology Engineering

Engineering English

Environmental Science Family and Consumer

Studies Fire Science Foreign Languages Geography Geslogy Health Humory Humanizies Industrial Arts Jewish Studies Journalism Law Linguistics

Management Mathematics Mechanical Drafting Medical Record Science Menchandise Display

(Visual Merchandising and Display) Merchandising

Meteorology Microbiology Microbiology Mineralogy Music

Natural Resources Management

Management Nursing Oceanography Office Administration (Secretarial Science) Philosophy Photography

Photography, Commercial (Photography-T)

Physical Education Physics Physiology Pointcal Science Psychology Public Service Real Estate Recreation Respiratory Therapy

Remaurant Management Sign Graphics Social Science.

Sociology Speech Communication

Statistics Technical Illustration

Television Theater Transportation Urban Planning Water Systems Technology Zoology

Transfer Requirements

1998

Transfer To Other Colleges

The requirements of the various colleges and universities vary so greatly that it is not possible to prescribe a program of work which will apply to all. Therefore, although many courses offered at Pierce College are of collegiate level, special identification is given to those courses which are accepted for transfer at the University of California at Los Angeles.

In general, these procedures should be followed:

- Students should consult the catalog of the college to which they intend to transfer. They should choose those courses at Pierce in accordance with the requirements of the college desired, as noted in its catalog.
- They should consult with a Pierce College Counselor.

The College Library and the Career Center have many catalogs on file for reference. Students should obtain a catalog for their personal use directly from the registrar of the college which they plan to

Some courses do not carry credit roward graduation from a university. Students should not espect college or university credit for courses unless they know definitely that such courses will be accepted. by the institution in question.

Transfer requirements are prescribed by the receiving institution.

Transfer Information on the WorldWide Web -ASSIST

ASSIST is a computerized student-transfer information system that can be accessed over the World Wide Web. It displays reports of how course credits earned at one California college or university can be applied when transferred to another. ASSIST is the official repository of articulation for California's colleges and universities and therefore provides the most accurate and up-to-date information available about student transfer in California.

Assist is available at www.assist.org.

Transfer To Either University Of California Or California State University System -IGETO

The Intersegmental General Education Transfer Curriculum (IGETC) is an agreement by the California Community Colleges, the California State Universities, and the University of California on a common transfer plan. The IGETC consists of a series of courses which, if completed prior to transfer, allows community college transfer students the opportunity to satisfy the lower-division general education requirements for any campus of the CSU or UC, without the need, after transfer, to take additional lower-division courses.

The IGETC is advisable for most California Community College students who have not yet decided on a major or a particular campus and who want to keep their options open before making a final decision about transferring into either UC or CSU. For some majors IGETC may be inappropriate. Students who are purming UC majors that require extensive lower-division preparation to be admitted to the major may find the IGETC inadvisable - See Counseling Office for information.

The IGETC can be certified for California community college transfers who have also completed transfer units at a CSU, UC or independent college provided that the student has completed must of the transfer units at one or more California community colleges. A California community college student is usually defined as one who has completed or will complete 30 or more total units at a California community college. Students who initially enroll at a UC campus, then leave and attend a community college, and subsequently return to the same campus are considered "readmits" by the University. Such a student cannot use the IGETC - this is true at all UC campuses. However, students who enroll at a UC campus, then leave and attend a community college, and subsequently return to a different UC campus may be able to use the IGETC, but students need to check with the campus they wish to attend.

Since the IGETC must be completed in its entirety prior to transferring, students who do not complete it before transferring will be subject to the specific general education pattern at the UC campus to which they are transferring. Students who are CSU bound will still have the option of completing the CSU certified

Since the IGETC has frequent revisions, students must consult with a counselor or pick up the latest version in the Counseling Office. ADM 1000.

Transfer Requirements

PLEASE NOTE: Although a course may be listed in more than one subject area, a single course may be used just once. Only "C" grades or better will be accepted (no C-), and credit/no credit courses are acceptable only if the college catalog defines credit as equivalent to a letter grade of "C" or better (as it does at Pierce).

CERTIFICATION: IGETC must be certified PRIOR to transfer. Certification of these units is not automatic, and no partial certification will be allowed. Certification must be requested in the Graduation Office when the student completes all of the IGETC requirements. If courses used to fulfill the IGETC were completed at colleges other than Pierce or a college within the Los Angeles Community College District, official transcripts must be sent to the graduation office. If you are using high school courses to fulfill the Language Other than English" requirement for the IGETC (UC only), an official high school transcript must be on file in the graduation office. Furnishing official transcripts from colleges or high schools is the responsibility of the student. Students who leave the college, breaking continuous enrollment, will be placed under the IGETC plan in effect for the year that they return.

COURSES COMPLETED AT OTHER COLLEGES: Courses that are completed at any accredited college can be used in the IGETC certification. Students should be aware, however, that coursework from other California community colleges will be applied in the IGETC category determined by the original college. Students may petition in the Graduation Office to use courses taken at UC, CSU, private or out of state schools. Petitions will be evaluated to determine if courses are equivalent to those on the Pierce IGETC

AP SCORES: AP scores of 3 or higher can be used to satisfy any IGETC subject area except the Critical Thinking/English composition and the oral communication requirement. Even though credit for more than one course can be awarded by Pierce for Al' scores of 3 higher, only one course in the subject for which the AP test was taken can be used on the IGETC. Some universities do not award course credit for AP scores. Students should check with a counselor and/or the institution to which they plan to transfer.

DOUBLE-COUNTING: UC will allow requirements completed as preparation for the major to be used in the IGETC wherever they appear.

PROFICIENCY IN A LANGUAGE OTHER THAN ENGLISH: Verification of this requirement will be based on official records (either high school or college) indicating completion of coursework (with grades of "C" or better) equivalent to two years in high school of the same foreign language. Students can also meet this requirement by providing evidence of appropriate scores on AP exams (scores of 3 or more are acceptable) or by earning a minimum score to 500 on the College Board Achievement Test.

COURSES TAKEN AT FOREIGN INSTITUTIONS: These courses will NOT be permitted for certification on the IGETC.

Some ITV course work may be used - see a counselor.

The following list is for students beginning the academic year 1996-97 or after:

AREA 1 - ENGLISH COMMUNICATION

CSU - 3 courses required, one from each group below UC - 2 courses required, I each from Group A & B.

Group As English Composition, 1 course, 3 semister units, or 4-5 quarter units English 101

Group Br Critical Thinking - English Composition, 1 course, 3 semester units, or 4-5 quarter units.

Prior to completing either of these courses, a student must have completed English 101 with a grade of "C" or higher. English 102 (Spring '97 or after) English 103

Group C: Oral Communication (CSU requirement only) 1 course, 3 semester units, or 4-5 quarter units

Speech Communications 101 or 104.

AREA 2 - MATHEMATICAL CONCEPTS and QUANTITATIVE REASONING

I course, 3 semester units, or 4-5 quarter units

Philosophy 201.

Mathematics 227 (225)**, 238**, 239**, 245**, 255**, 260**, 261**, 262**; Statistics 1**.

AREA 3 - ARTS and HUMANITIES

3 courses required, at least 1 from each group below. 9 semester units, or 12-15 quarter unio

Group A: Arts

Art 101, 102, 103, 111, 137**-139**, 500, 501, 502; Music 111, 112, 121, 122; Cinema 3, 18; Photography 27; Physical Education 801, 802, 803, 804.

Group Br Humanities:

Anthropology 104 (same as Linguistics 1), 105, 121, 123; English 203, 204, 205, 206, 207, 208, 209, 211**, 212**, 213 (same as Theater Arts 125), 214, 215, 216, 219, 239, 240**, 250, 252, 270; French 3, 4, 5, 6: History 1, 2, 7: Humanities 3, 6, 11, 12, 13, 14, 30, 31, 60; Italian 3, 4, 5, 6: Japanese 3; Linguistics 1 (same at Anthropology 104); Philosophy 1, 2, 12, 14, 17, 19, 20, 30, 35, 41; Sociology 11, 15; Spanish 3, 4, 5, 6, 12, 15, 25; Speech Communications 130; Theater Arts 100, 110, 115, 125 (same as English 213).

AREA 4 - SOCIAL and BEHAVIORAL SCIENCES

3 courses from at least 2 disciplines. 9 semester units, or 12-15 quarter MINIST

Anthropology 102, 103, 112, 132; Child Development 1; Economics 1, 2, 10 (same as History 15); Environmental Science 17 (same as Geography 14); Geography 2, 5, 7, 8, 10, 12, 14 (same as Environmental Science 17); History 3, 4, 5, 6, 8, 11***, 12*** 13***, 14***, 15 (same as Economics 10), 20, 21, 30, 41***, 42***, 43***, 44***, 50, 52*, 77, 86, 87; Law 3; Political Science 1*, 2, 7, 30*, 35 (American Fureign Policy): Psychology 1**, 6**, 11, 13,
 14, 18, 41, 52, 66; Sociology 1, 2, 4**, 6, 13, 18**, 28, 30. Spanish 10; Speech Communications 121.

AREA 5 - PHYSICAL and BIOLOGICAL SCIENCES

2 courses, 1 from each group, at least 1 must include a laboratory.

Lab courses are underlined: 7-9 semester units, or 9-12 quarter units. The lab selected must correspond to the lecture course used.

Group Az Physical Sciences

Astronomy 1**, 2**, 3**; Chemistry 51**, 60**, 70**, 101, 102, 201, 211**, 212**, 221**; Environmental Science 1, 7 (same as Geology 10), 18 (same as Geography 9); Geography 1, 3 (same as Meteorology 3), 9 (same as Environmental Science 18), 15 ; 17 ; Geology 1, 2**, 6, 7**, 10 (same as Environmental Science 7) 22ABCD (3 unit minimum); Meteorology 3 (same as Geography 3). 4 : Oceanography 1, 10 : Physical Science 1**, 4** : 14** : Physics 6** : 7** : 11** : 12** : 37AB**, 38AB**, 39AB**.

Group Br Biological Sciences

Agriculture 901** (same as Environmental Science 5); Anatomy 1; Anthropology 101, 111; Biology 3**, 6, 7, 10, 11ABC**; 25**; Environmental Science 2**, 5** (same as Agriculture 901**); Microbiology 1**, 20**; Oceanography 2** or 12** (these courses are the same), 14**; Physiology 1**, 8**, 9**; Psychology 2.

LANGUAGE OTHER THAN ENGLISH (UC Requirement Only)

Proficiency equivalent to 2 years of high school foreign language analy in the same language with a grade of "C" or better. At Pierce, this requirement can be satisfied by completion of level 2 in a foreign language. Choose from: French 2: Italian 2: Japanese 2: Spanish 2.

If language level 3 or higher is used to satisfy this requirement, it may not be used in Area 3 Group B: Humanities.

*Courses designated with one asterisk are listed in two subject areas, but may be counted in one area only.

"Indicates that UC course credit may be limited. Please see Pierce College Counseling Office for UC limit checksheet.

***Indicated course may be counted in one area only and UC course credit may be limited.

NOTE: Underline indicates that a course is a lab course.

CSU GRADUATION REQUIREMENT IN U.S. HISTORY, CONSTITUTION and AMERICAN IDEALS (Not part of IGETC, but may be completed prior to transfer.) 2 courses, 1 from each group, 6 semester units (12 quarter units). Courses used to meet this requirement may not be used to satisfy requirements for IGETC.

Group A: Political Science 1, 30

Group B: History 11, 12, 13, 14, 41, 42, 43, 44, 52.

The IGETC Plan is subject to periodic revisions. Consult Counseling Office for current information.

Admission To The University Of California

Without high school deficiencies

Even if a student is eligible from high school, it has become exceedingly difficult to transfer from a community college without having completed 60 transferable units. Students should follow the IGETC or when appropriate the UC general education pattern, and where specified, complete the prerequisites of their designated major. The minimum grade point average to be eligible is a 2.4, but many of the campuses look for a much higher grade point average.

With high school deficiencies

Applicants who were not eligible to enroll at the time of high school graduation may make themselves eligible by completing 60 UC transferable units with a grade point average of 2.4 and completing the following:

- a. English 101 and English 102 or 103,
- h. A UC transferable Math class,
- c. Four UC transferable classes chosen from at least two of the following subject areas: the Arts and Humanities, the Social and Behavioral Sciences, and the Physical and Biological Sciences.

Admission To The Independent California Colleges And Universities

California's fully accredited independent colleges and universities provide a host of options at undergraduate, graduate and professional levels for students planning to continue their education beyond community college.

Admission Policies

Students who transfer to independent colleges or universities findthey are given academic credit for most, if not all, of their community college studies.

Some colleges and universities stipulate a certain number of completed units before considering students eligible for transfer. Others do not and will accept students at any time. The requirements are outlined in the college catalogs, available upon request from the respective college's Office of Admissions. Many of these catalogs are available in the Pierce Career Center library. The Counseling Office has some advisement sheets available outlining the requirements for various schools including:

Art Center College of Design California Lutheran College Pepperdine University, L.A. and Malibu Campuses U.S.C. - Letters and Sciences and Business Administration

Independent institutions invite you to make an appointment with their Offices of Admissions in order to discuss your transfer opportunities on a personal basis.

All of the above courses can be met by completing IGETC.

Requirements For Students Planning To Transfer To A Four-Year Institution

Two principal types of requirements should be met in order to attain full junior standing at the University of California or other institutions maintaining equivalent standards to which the student espects to transfer. These are:

- The completion of the lower division prerequisites for upper division majors and minors. These vary according to the institution of higher education in which the student expects to enroll.
- The completion of a general education pattern required by the receiving institution.
 - a) The patterns for UCLA are listed later in this section.
 - Patterns for California State Universities and Colleges are as follows:
 - i) The PIERCE COLLEGE GENERAL
 EDUCATION CERTIFIED PLAN authorized by
 state legislation for students transferring to the
 California State University and Colleges is presented
 below. (How to meet 39 units of General Education)
 Certification will be provided upon request for the
 student who completes all or a portion of this pattern.
 The State Universities and Colleges will accept this
 certification.
 - Students may elect to complete the general education plan of the particular California State College or University which they plan to attend.
 - For institutions other than the above, information is available in the Counseling Office.

In addition to examining the information offered in this catalog, atudents especting to transfer to four-year institutions should consult the catalog of these institutions regarding specific requirements for upper division standing and should consult a counselor.

RECOMMENDATION! If you plan to transfer to a four-year school, see a counselor each semester.

How To Meet 39 Units Of General Education -Breadth Requirements For Students Transferring To The California State University And Colleges

Certified Plan

Students intending to transfer to the CSU system have a choice of general education plans. The IGETC plan is accepted at both CSU and UC schools. The Certified Plan is accepted only at CSU schools. Students who are certain they will transfer to a CSU school should follow the Certified Plan. Students uncertain about whether they will transfer to a CSU or a UC school, or who want to keep their options open, should follow the IGETC Plan. Transferring students may consult a counselor for further information.

All students who are currently following a CSU Certification Plan are now obligated to follow the 1993-94 Plan or subsequent plans.

CSU Certification Plans prior to Fall 1993 are no longer useable. There have been changes and additions to the Plan. This was done by the Board of Trustees to the California State University System. Courses taken on previous plans, but not found on the Fall 1993 Plan (or subsequent plans), will be honored in the category taken. To be certified, a student must comply with the new regulations/format of the Fall 1993 Plan or subsequent plans.

Transfer to a CSU campus requires a minimum of 56 transferable units

The CSU system requires a minimum of 48 units of general education, 9 units of which must be completed during the last two years of studies for a baccalaureate degree. Pierce College can certify up to 39 units. Certification of these units is NOT automatic. It must be requirements.

Partial or complete certification must be accomplished under the following regulations and must be requested as outlined below.

- Requests for certification should be submitted to the Graduation Office when the student is qualified to transfer to the California State University system (CSU).
- At the time a certification request is submitted a request for a transcript must be submitted in the Graduation Office.
- c) Coursework completed at other California community colleges is applied in the same area of the certified pattern in which it was used at the school where it was completed. For coursework completed at all other accredated colleges or universities, up to 18 units may be used anywhere in the certified pattern. Approval is obtained by filing a petition for "Pass-Along" certification in the Graduation Office.
- d) Certification of specific areas is possible (partial certification) if all requirements of that area are met.
- A student is eligible to be certified after completing a minimum of 12 certifiable units in the LACCD.

Courses required for the major may also be used for meeting the general education breadth requirements.

ONLY TWO COURSES in any one discipline, excluding laboratory only courses, may be used in meeting the Certified Plan requirements.

AREA "A" 9 UNITS - COMMUNICATION/CRITICAL THINKING

One course from each catagory.

A-1 ORAL COMMUNICATION - Speech 101

A-2 WRITTEN COMMUNICATION - English 101

A-3 CRITICAL THINKING - Philosophy 6, 7, 9, 201, English 102, 103, Speech 104, Psychology 66,

AREA "B" 9 UNITS - PHYSICAL UNIVERSE & LIFE FORMS

One course from each category. Laboratory course is required? Lecture and lab must musch.

B-1 PHYSICAL UNIVERSE

Agri 103, Astro 1, 2*, 3*, Chem 51*, 60*, 70*, 101*, 102*, 211*, 212*, 221*, Env. Sc. 1, 7, Geog 1, 3, (same as Meteor 3), 9, 15*, 17* Geology 1, 2, 4*, 6*, 7*, 10, 11, 22, (3 units min.)

Meterology 3 (same as Geog 3) Ocean 1, 10*, Phys. Sc. 1, 4*, 14*, Physics 6AB*, 7AB*, 12, 37AB*, 38AB*, 39AB*.

B-2 LIFEFORMS

Agri 511, 512*, 901, 940, 950; Anatomy 1*; Anthro 101, 111*; Biol 3*, 6*, 7*, 10*, 11, 12, 18, 25, 40; Env. Sc. 2; Microbio, 1*, 20*; Ocean 12, 14*; Physiology 1*; Psych 2.

B-3 LABORATORY ACTIVITY

One of the courses chosen from B-1, B-2 or B-4 must be a lab coursedesignated by an asserisk and must be matched with the appropriate betwee course.

B-4 MATHEMATICAL CONCEPTS

Math 215, 227, 230, 238, 239, 240, 245, 255, 260, 261, 262, Statistics 1.

AREA "C" 9 UNITS - ARTS, LITERATURE, PHILOSOPHY FOREIGN LANGUAGE. AT LEAST ONE COURSE FROM ARTS (C-1) AND ONE FROM HUMANITIES (C-2). THE THIRD COURSE MAY BE FROM EITHER CATEGORY.

C-1 ARTS

Art 101-103, 111, 137-139, 201, 300, 400, 500, 501, 502, 700, 708, 721, Cinema 3, 18, Humanities 6, 11-14, 30, 31, 60, 61, 89, Music 111, 112, 121, 122, 226, 241, 251, 299, 321-324, 341, 411-414, 501, 561, 571, 601, 611, 621, 651, 705, 721, 731, 741, 755, 775, Photo 9-12, 29, Phys. Ed. 801-804, 812, 814, 818, Theater 100, 110, 115, 125, 265, 270, 271, 273.

C2 HUMANITIES

Anthro 104, 121; English 102, 127, 203-207, 208, 209, 211-216, 219, 239-241, 250, 252, 270; French 1-6; History 1, 2, 7, 77, 86, 87; Humanities 2, 6, 11-14, 30, 31, 60, 61, 89; Italian 1-6; Japanese 1-4, 8; Philos 1, 2, 12, 14, 19, 20, 29, 30, 35, 41, 42; Photo 27; Spanish 1-6, 12, 15, 25, 27.

AREA "D" 9 UNITS - SOCIAL, POLITICAL & ECONOMIC INSTITUTIONS

U.S. HISTORY, FED. STATE & LOCAL GOV'T REQUIREMENT, SELECT ONE COURSE FROM A AND ONE COURSE FROM B. A. HISTORY 11, 12, 13, 14, 41, 42, 43, 44, 52. B. POL, SCL 1, 30.

SELECT ONE ADDITIONAL COURSE, NOT TAKEN FROM D-A or D-B ABOVE, FROM D-1 THROUGH D-0.

D-1 ANTHROPOLOGY AND ARCHAEOLOGY Anthro 102, 103, 132, 141.

D-2 ECONOMICS

Econ 1, 2, 10 (same as History 15).

D-3 ETHNIC STUDIES History 43, 44, Spanish 10, 26

D-4 GENDER STUDIES History 52

D-5 GEOGRAPHY

Env. Sci. 17. Geog. 2, 5, 7, 8, 10, 14 (same of Env. Sci. 17).

D-6 HISTORY

Hist 3-6, 8, 11-15 (same as Econ 10), 27, 40-44, 50, 52, 86, 87.

D-7 INTERDISCIPLINARY SOCIAL OR BEHAVIORAL SCIENCE

Journalism 100, Speech 121, 122.

D-8 POLITICAL SCIENCE, GOV'T AND LEGAL INSTITUTIONS

Law 3, Poli. Sci. 1, 2, 7, 14, 30, 35.

D-9 PSYCHOLOGY

Psych 1, 3, 6, 11-14, 16-18, 40-42, 51, 52, 66.

D-0 SOCIOLOGY

Soc 1-3, 4, 6, 7, 10, 11, 13, 15, 28,

AREA "E" 3 UNITS - LIFELONG UNDERSTANDING AND SELF DEVELOPMENT

Biology 25, 39; Environ, Sci. 1, 18; Geog 9; Health 9, 10, 11; Phys. Ed. 90, 91, 100-600 activity courses (maximum of 1 unit total); Psych 3, 4, 18, 36, 37, 40, 41, 52, 60; Philos 19; Soc 17, 28, 30.

Associate Degrees with Certified Plan

Students who wish to receive an Associate Degree from Pierce College while following the Certified Plan should request evaluation according to Plan A, (see Graduation requirements in previous section) when petitioning for graduation.

Admission To California State University, Northridge

Applicants who were eligible for admission at the time of high school graduation may apply for advanced standing at the university in accordance with admission requirements in effect at the time they were graduated, if they were full-time students in an accredited college and earned at least a "C" average in college work. Those who do not complete 56 units of CSU transferable college work may be required to take the SAT or ACT entrance examination as a condition of admission. If they were not full-time college students, they may be required to meet the admission requirements applied to recent high school graduates.

Applicants who were not eligible to enroll at the time of high school graduation may make themselves eligible. In order to qualify for junior standing at California State University, Northridge, an applicant must have completed a minimum of 56 transferable units at accredited institutions with a "C" average in all work undertaken. In addition, four courses in Basic Subjects, CSU Plan C, must be completed. As of Fall 1986 all students new to college must also have the equivalent of four years of high school English and two years of high school mathematics (algebra and geometry or higher).

Students intending to work for a degree at the California State University, Northridge should plan their work to meet the lower division requirements.

California State University, Northridge Lower Division Major Requirements

Lower division requirements for all majors at CSUN are available upon request in the Counseling Office.

College Of Letters And Science University Of California Los Angeles

Students who were ineligible for admission to UCLA College of Letters and Science directly from high school may become eligible by completing 60 UC transfer units with a 2.4 grade point average at Pierce and completing English 101 (1), English 102, or 103, a UC transferable Math class, and four UC transferable college courses chosen from at least two of the following subject areas: Arts and Humanities, Social and Behavioral Sciences, and the Physical and Biological sciences.

A maximum of 70 units from Pierce will be accepted towards graduation from UCLA. Students are advised that the above are minimum requirements, and that entering students often have a much higher grade point average.

To obtain an Associate Degree from Pierce College as well as prepare for transfer to UCLA, see Graduation Requirements listed in previous section.

- General University of California Requirements American-History-and-Institutions: Any course used to meet
 - this requirement may also apply on the general college requirements listed below. This requirement may be met in one of the two following ways:
 - Completion of two semesters in high school of American History or American Government or a combination, with a "B" average.
 - Completion of one course chosen from the following with a grade of "C" or better: Economics 10, English 207, 208; Mistory 5, 6, 8, 11", 12", 13", 14, 15, 20, 41", 42"; Political Science 1*.
 - *These courses also meet the government requirement for the Pierce AA degree.
- General Education Requirements

Students should complete the IGETC.

Requirements for College of Letters and Science Majors

Requirements for the majors are available upon request in the Counseling Office.

UCLA School Of Engineering Criteria For Admission

All Engineering majors:

Chemistry 101 & 102 Computer Science 506, 513, 539 or 543 Mathematics 261, 262, 263, 270 & 275 Physics 37, 38, 39 And completion of English 101.

The School of Engineering and Applied Science offers a Bachelor of Science degree in the following areas: Aerospace Engineering, Bioengineering (add Chem. 211, 221, Bio. 6, 7), Chemical Engineering (add Chem. 211, 221), Civil Engineering, Computer Science and Engineering, Electrical Engineering, Environmental Engineering (add Chem. 211, 221), Materials Engineering, and Mechanical Engineering, Students are advised to check with a counselor regarding specific requirements pertinent to their major choice and the general education requirements peculiar to engineering.

UCLA School Of The Arts And Architecture

Majors: Architecture, Art. Dance, Design, Ethno-musicology, Music, and World Arts and Cultures. Call (310) 825-9708 for more information.

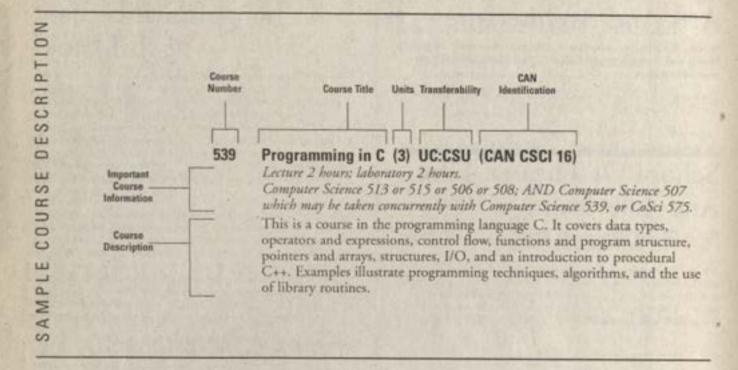
The department of Architecture and Urban Design offers Masters and Ph.D. degrees only. Call (\$10) 825-0525.

School Of Theater, Film And Television

Majors: Film and Television, and Theater Call (310)825-5761 for more information

It is highly recommended that students follow the IGETC transfer plan for either the School of the Arts or the School of Theater, Film and Television. Please see a counselor for preparation for these majors. Admission is very selective. Students should consult with a counselor as soon as possible.

How to Read the Course Descriptions



Key To Transfer Credit Codes

- UC This course is acceptable for credit at all branches of the University of California.
- The granting of transfer credit by a UC campus for fieldwork or directed study courses is contingent upon a review of the course outline after transfer. A UC student must submit a petition to initiate this process.

A UC campus will accept a maximum of 3 semester units of directed study or field work in any one semester and a total of 6 units maximum in any and all appropriate subject areas combined.

For further clarification, please consult a counselor.

- CSU This course is acceptable for credit at all branches of the California State University System.
- NDA Non-Degree Applicable. Some courses which are offered for college credit, but which cannot be applied toward graduation requirements for the Associate Degree are designated by the code NDA. All courses which meet the major requirements of the educational programs listed in the catalog may be applied towards graduation requirements for the Associate Degree. All transfer courses may be applied to the Associate
- CAN The California Articulation Number System identifies some of the transferable, lower division, introductory (preparatory) courses commonly taught on California college campuses. The system assures students that CAN courses on one participating campus will be accepted "in lieu of" the comparable CAN courses on another participating campus.

Accuracy Statement

The Los Angeles Community College District and Los Angeles Pierce College have made every effort to make this catalog accurate and may, without notice, change general information, courses, or programs offered. The reasons for change may include student enrollment, level of funding, or other issues decided by the district or college. The district and college also reserve the right to add to, change, or cancel any rules, regulations, policies and procedures as provided by law.



Accounting

Introductory Accounting I (5) UC:CSU (CAN BUS Z)

Introduces the fundamental principles and concepts of accounting as a basis for financial communication in business. Includes the study of the procedures in maintaining records of business transactions and the preparation of financial statements for the sole proprieturihip service or merchandising firm. Topics in cash, receivables and temporary investments, inventories, plant assets and intangible assets, payroll, tunes payable and other current liabilities, concepts and principles.

2 Introductory Accounting II (5) UC:CSU (CAN BUS 4)

Prerequirites Accounting I wish a grade of "C" or beston.

Continues the introductory phase of accounting. Topics in partnership formation, income division and liquidation, corporate organization and equity rights, earnings, dividends, long-term liabilities, investments in stocks and bonds, consolidated statements, international operations, statement of cash flows, financial statements analysis, annual reports, managerial accounting principles, cost systems, out behavior, budgeting, cost-volume-profit analysis, accounting for decentralized operations, transfer pricing, differential analysis, product pricing, and capital investment analysis.

15 Tax Accounting I (3) CSU

Lecture 3 hours

Prerequisite: Accounting I with a goale of "C" or botter.

Deals with tax laws, accounting procedures, and preparation of individual Federal and California income use returns.

17 Payroll Accounting (2)

Lection 2 hours.

Percepuisites Accounting I with a guide of 'C' or better

Concerns methods and procedures in accounting for payrolls and in the preparation of Federal and State payroll tax returns using up-to-date. Computer Software Packages. Techniques surveyed vary from the manual to current automated payroll procedures. Also acquaints students with the various phases of the Social Sections benefits and taxes and Seate and Federal laws relating to the payment of wages and salaries.

20 Managerial Accounting (3) CSU

Certaine 3 Maure

Prerequisites Accounting I with a goods of 'C' or better.

Covers the preparation and analysis of accounting reports and statements for the purposes of aiding management in the decision making processes, in planning and in financial control. Emphasis is on the ordination of accounting data by business management. Includes budgeting, analysis for business finance, cost accounting analysis, source and application of funds statement, statement analysis and direct costing techniques.

21 Bookkeeping and Accounting I (3) *UC:CSU

Lecture 3 hours

Nate: Accounting 21 and 22 are equal to Accounting 1. Credit conner be given for Accounting 21 or 22 and Accounting 1.

Reviews the fundamentals of bookkooping and accounting, the accounting cycle, the journals and ledgers, the works-beet and financial statements, and the year-end adjustments and closing entries. Problems and a practice set are integral parts of this course.

22 Bookkeeping and Accounting II (3) *UC:CSU

Lecture 3 hours

Prerequisites Accounting 21.

Note: Accounting 21 and 22 are equal to Accounting 1. Credit cannot be given for Accounting 21 or 22 and Accounting 1.

The voucher system: payroll accounting: accounting for notes, drafts, bad debts, investories, cost of goods sold, fixed mosts, depociation, adjustments, and interim statements. Students complete a practice set.

Cooperative Work Experience Education

See Basinea - Cooperative Work Experience Education.

*UC Credit Limit: Maximum 5 aouts

Accounting -Computerized

See course listings under Office Administration.

Agriculture

General Agriculture -	Agriculture 100-199
Animal Health Technology -	Agriculture 400-499
Animal Science-	Agriculture 500-590
Herse Science -	Agriculture 600-699
Horticulture -	Agriculture 700-899
Natural Resources Management -	Agriculture 900-999

103 Introduction to Soils (3) UC:CSU

Lecture 2 bours, Laboratory 2 hours. Normally offered in the Full semester only.

Considers the origin. Sommation, attracture, and composition of unlalectudes the effects of tillage, drainage, and irrigation upon said productivity. Examines the effect of laboratory and field work dealing with the maintenance and improvement of soil fertility upon various crops and farm systems. Analyses the effect of organic and inorganic fertilitees upon soil productivity, control of soil moisture, and the problems of alkali and dry land management.

110 Food and Society (3) CSU

Lecture 3 hours.

A general education course which reviews the role and impocn of food, and food production, on the development of civilization. The biological and ecological impacts of food production will be covered as well as the reconomic, political, and social dimensions of modern Agri-business. World hunger and food policies will explore the future.

112 Fertilizers and Plant Nutrition (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Studies the formation of soils with their physical and biological properties. Gives practical applications in effectively using soil as the foundation of plant growth and in improving soils by physical soil amonatricists.

120 Ethical Issues of Using Animals (3) CSU

Lecture 3 hours

Considers the ethical issues of using animals in research, education, for food production and as companions. Class discussions include the animal welfare/righes movements, the use of IACUCS, and the Animal Welfare ACT

180 Animal Care Experience (2)

Lecture 1 hour; laboratory 2 hours.

This course is designed to provide veserinary science students with knowledge, skills, and abilities in animal care. Areas of study will include sanitation, hoosing, matrition, grooming, restraint, training, and environmental enrichment requirements for both livestock and companion animals.

181 Field Work (10)

Laboratory 30 lorus

Supervised job experience extending occupational learning in the classroom at an on-the-job learning station related to the students' occupational goals.

213 Computer Applications in Agriculture (2) CSU

Lecente I lour; Laboratory 2 lours.

Use of computer programs available for agriculture and of accillary equipment available at computer content. Statistical and other computer programs applied to agriculture problems.

305 Farm Machinery (2) CSU

Lecture I hours: laboratory 5 hours.

Examines the arracture, operation, and utilization of tillage, seeding, harvesting, pert control, and pumping equipment. Considers the construction, operation and maintenance of farm tractors and the application of electric power to agricultural needs.

401 Orientation to Veterinary Science (1)

Lecture J hour.

Directs student explorazion of Animal Health Technology and Veterinary Medicine as a career choice. Includes job rasks, job market possibilities, preview of current legislation and medical terminology.

402 Topics in Veterinary Technology (2)

Lecture 2 hours.

Prerequisites Agriculture 401.

Normally offered in the Full semester only

Orients students into the Animal Health Technology Program. Includes medical terminology, veterinary ethics and discussion of the role of the technician in veterinary medicine.

410 Animal Nursing I (2)

Lecture 2 hours

Prerequisites Approval to conce Animal Health Technology Program.

Studies the sympsoms and treatments of diseases affecting small animals, vaccination protocol, pharmacology, first aid procedures, and vererinary dentistry.

411 Animal Nursing I Laboratory (1)

Laboratory 2 hours.

Corequisites Agriculture 410.

Provides for practical experience in performing specific skills involved with animal musting.

412 Animal Nursing II (2)

Letture 2 hours

Prerequisites Agriculture 410.

Sendies emergency procedures, care of critically ill patients, and an introductory orady of birds and repriles.

413 Animal Nursing II Laboratory (1)

Laboratory 2 heurs.

Corequisites Agriculture 412.

Continues Animal Nursing I Laboratory in providing practical experience in performing new technical skills involved in animal nursing.

420 Clinical Procedures in Animal Care I (2)

Leesure 2 hours.

Prerequisites Approval to enter the Animal Health Technology Program. Offered Fall senseties only

Prepares the student to perform common clinical procedures in the animal hospital or laboratory under the supervision of a veterinarian

421 Clinical Procedures in Animal Care 1 Laboratory (1)

Laboratory 2 hours.

Corequisites Agriculture 420.

Offered Fall amenters only

Provides for practical experience in various clinical procedures needed by the animal health rechnician.

422 Clinical Procedures in Animal Care II (2)

Lecture 2 bours.

Prerequisites Agriculture 420 and 421.

Offered Spring semesters only

Prepairs the inulent to perform additional clinical procedures with emphasis on surgery and anesthetics.

423 Clinical Procedures in Animal Care II Laboratory (1)

Laboratory 2 hours.

Corequisites Agriculture 422.

Offered Spring someten only

Provides for practical experience in anesthesiology, surgical anistance and other aspects of clinical procedures.

430 Veterinary Clinical Pathology (2)

Lecture 2 hours

Prerequisites Approval to enter Animal Health Technology program.
Offered Fall semesters only.

Provides a comprehensive introduction to modern practical methods in veserinary clinical laboratory analysis. Includes blood, urine, feces and skin scrapings tests with emphasis on small animal species.

431 Veterinary Clinical Pathology Laboratory (1)

Laboratory 2 hours

Corequialtes Agriculture 430.

Offered Full seventers only

Provides practical experience in performing various clinical analysis examinations and procedures.

435 Veterinary Radiography (2)

Lecture 2 hours.

Prerequisites Approval to enter the Animal Health Technology program.
Offered Fall semesters only.

Considers radiological terms, safety, and techniques needed by the animal health technician to assist the vereinarian.

436 Veterinary Radiography Laboratory (1)

Laboratory 2 hours

Corequisites Agriculture 435.

Offered Fall unverters only.

Provides practice in radiological techniques and film developing as well as safe use of equipment.

441 Large Animal Nursing Laboratory (2) RPT 1

Laboratory 4 hours.

Prerequisite: Approval to enter Animal Health Technology program.
Offered Spring semesters ands.

Provides hands-on practical experience in performing procedures and hubbandry practices common to large and laboratory animal species. Extensive practice in handling and restraint also provided.

450 Introduction to Animal Facilitated Therapy (1)

Lecture I hours, field trips or labs to be announced.

The role of animals, including both large and small animal species, in animal-assisted therapy. Issues such as selection, training, care and maintenance, facilities and personnel required, as well as costs and liability issues will be discussed. The class will emphasize practical issues and hands-on experience.

460 First Aid for Companion Animals (2)

Lecture 2 hours

Presents as everyiew of first aid situations and their treatments in dogs and cars, relative to animal facility employees and/or pet owners.



456 Avian Care and Husbandry (1)

Lecture I hour,

This course provides the students with information and practical training about per birds. Topics include basic management peinciples such as housing and dier, common avian ailments, breeding techniques and behavior. Included will be aspects of aviary set-up and management.

470 Laboratory Animal Care (2)

Lecture 2 hours: Laboratory I hour.

Prerequisite: Approval to enter Veterinary Technology Program.

Presents an introduction to laboratory animal care and husbandry. Topics include care and restraint of rabbits, guinea pigs, rodents and other pocket, pets. Career opportunities will also be addressed.

480 Clinical Experience for Animal Technicians (3) RPT 2

Laboratory 9 hours.

Prerequieites Agriculture 420 and/or Agriculture 422 with

a grade of "G" or better.

Provides an opportunity to obtain specialized experience in a vererinary clinic through an internable program. During this internable program, students will be given varied practical experience in all aspects of vererinary assistance and will be able to coordinate this experience with their classroom instruction.

489 Animal Health Technician Practicums (12)

Lecture 12 hours.

Prerequisite: Be a professional animal health technician

Designed primarily for practicing animal health technicians. Discusses selected sopics of current interest. Taught in modules of one or roo units.

501 Principles of Animal Science (3) UC:CSU

Lecture 3 hours.

Provides a broad perspective of livestock management problems and decisions that must be made in livestock production. Covers the following class of livestock: beef carrie, dairy carrie, sheep, swine, horses and poultry. Topics include breeds, feeding, and reproduction as well as other management activities.

505 Animal Nutrition (3) CSU

Lecture 3 hours.

Includes a general study of the constituents of feed (carbohydrans, proteins, fats, minerals, vitamins and water), their utilitation by the animal body, the digestive system, the processes of digestion and animilation of the various feed constituents. Councilincologies ration balancing and feed identification.

506 Urban Farm Animal Health and Nursing Techniques (2)

Lecture 1 hour; Laboratory 2 hours.

Provides practical aspects of urban animal health and related care of farm livestrick. Course encompanies the various preventative health programs, as well as nursing techniques for back-yard producers. Provides "handson" experience in performing husbandry practices common to each species.

510 Animal Health and Disease Control (3) CSU

Lecture 3 hears.

Relates the physiology of animals to animal health. Includes common animal diseases, their causes, prevention and control, the treatment of wounds and the relation of sanitation to disease prevention.

511 Anatomy and Physiology of Animals (3) CSU

Lecture 3 hours.

Provides a basic study of the facts and principles of animal life. Includes devailed reference to the anatomy and physiology of domestic animals. Comparative anatomy and physiology is included.

512 Anatomy and Physiology of Animals Laboratory (1) CSU

Laboratory 3 hours.

Corequisites Agriculture 511.

Provides practical experience discovering principles and structures associated with the anaromy and physiology of animals. Microscope work and dissection of the car are included.

596 Agricultural Enterprise Projects (10)

Laboratory 30 hours.

Prerequisites Agriculture 540.

Involves the planning, development and completion of an individual or group animal science or crop production project under the guidance of a faculty advisor on the College farm. Untally the project will involve purchase of animals or crops, associated production costs, and eventual profit at time of sale.

601 Horse Production (3) UC:CSU

Lecture 3 hours.

Examines the history of the horse, including anatomy, conformation, predisposing factors to unsoundness, selecting, housing, and use.

602 Horse Husbandry (3) CSU

Lecture 3 bours.

Offered Spring ummeren unde

Presents in advanced and detailed form breeding, mare and stallion selection, fealing of the mare, feeding and management of light borses, diseases, sanitation, and prevention of disease.

603 Equine Management Techniques (10)

Lecture 5 hours: laboratory 10 hours.

Practical application of the management aspects of the horse industry, including participation in the management decisions associated with the College herd and facilities.

611 Farrier Science (2)

Lecture 1 hour; Laboratory 2 hours.

Prerequisite: Agricultury 601 and 602.

Offered Spring temesters only

Anamony, physiology, and conformation of the horse's feet and legs. Basic principles of conformation and gait analysis in relation to hoof balance. Fundamentals of trimming, fitting and applying shoes.

615 Introduction to Rodeo (1)

Leener I howe

Familiarites the student with the fundamentals of the sport of rodes and changes occurring in the sport. Surveys the opportunities file a professional career.

617 Intercollegiate Rodeo Activities (2) CSU RPT 3 Activity: 10 Insura.

Trains students for competition intercollegiate rodeo. Provides intensive practice in the various intercollegiate rodeo events. Familiariaes the student with fundamental rodeo arena procedures. Develops the physical desterny and coordination necessary for participation in the sport of rodeo at college level. Students from this course will be selected to represent Liu Angeles Pierce College at intercollegiste competitions.

620 Basic Equitation (1) CSU

Leciuse 1 hour

Corequisite: Agriculture 621.

Provides instruction for those interested in training to ride and handle horses. Includes grooming, saddling, bridling, parts and care of the squipment of horses, and riding orchniques.

621 Horseback Riding Laboratory (1) CSU RPT 3

Laboratory 2 hours.

Prerequisites Agriculture 630 or con-current enrollment in Agriculture 630. Beginning, intermediate, and advanced levels offered, but not necessarily every ornester.

Fundamental class in western and English riding designed to teach horseleack riding to students with varying degrees of experience.

630 Beginning Equine Training (2)

Lecture 1 hour; laboratory 2 hours.

Prerequirites Agriculture 601 and 602.

Offered Fall semesters undy.

Beginning equine training in the schooling and training of young horses for riding. Emphasis will be placed on controlling and conditioning the young horse in a manner safe for the student and the horse.

631 Advanced Equine Training (2)

Lecture 1 hour: laboratory 2 hours Prerequialtes Agriculture 630. Offered Spring tempoters only.

Expands the concepts learned in Agriculture 630. Emphasis will be placed on horse and rider as a team.

640 Horseshow Organization and Management (2)

Lecture 1 hour; Inhanctory 2 hours. Prerequisites Agriculture 601.

A comprehensive study of horseshow organization and management, with particular emphasis on accounting, insurance, labor management, marketing and advertising. Emphasizes adequate planning and preparation for success.

650 Equine Health and First Aid (2)

Lecture 1 hour; Laboratory 2 hours. Prerequisites Agriculture 601.

Creates att awareness among home owners, trainers, and stable managers of a healthy or sick animal; studies the cause and control measures which may be practiced. Helps the horse owner and the veterinary scientist

701 Retail Floral Design and Practices I (2) CSU

Lecture 1 hour, Laboratory 2 hours.

Teaches students the flowers and plants in Southern California sned printarily in the florist trade. Includes the use and care of equipment used in the trade and shop practice in flower case and corsage making.

702 Retail Floral Design and Practices II (2) CSU

Lecture I hour: Inhoratory 2 hours. Prerequisites Agriculture 701.

Continues Agriculture 701. As laboratory work, includes bowl arrangements for home and hospital, baby novelry arrangements, and anniversary arrangements. Studies folioge and flowering plant trimming, green planters, and the use of plastic flowers.

703 Retail Floral Design and Practices III (2) CSU

Leveure 1 hour; laboratory 2 hours. Prevequisites Agriculture 702.

Continues Agriculture 702. Studies floral designing of memorial offerings. floral sprays, set pieces such as wararhs, hearts, crosses, and blankers. Includes a study of general shop techniques. As part of the counce requirements, requires students to spend some time in local floral shops.

704 Advanced Retail Floral Design and Practices (2)

Lecture I bour; believing 2 hours. Perrequisites Agriculture 703.

Presents advanced demonstration in floral arrangements for special recessions, including complete coverage of wedding biosquers and corsages, church decorations, ballroom and banques decor.

708 Floristry Projects (6)

Laboratory 12 hours.

Involves planning, developing, and completing an individual floricultural production project under the guidance of a faculty advisor, on or off the collège campus,

711 Botany for Horticulture (4) UC:CSU

Lexinor 3 linure: Lebensony 3 bours.

Considers the fundamentals of borary, including a study of the main external parts and functions of flowering planes, the baox plant cell. enimposition and functions, and various specialized rissues and their functions. Discusses plant reproduction, both sexual and ascetal. including the busics of plant breeding and selection of new varieties for landscape horticulture. Emphasizes recognition, proper unlication, and maintenance of ornamental plants.

712 Botany of Ornamental Plants (3)

Lecture 2 hours; laboratory 2 hours.

Emphasires recognition, utilization and maintenance of ornamental plants. Consideration of the basic bottony of plants and a comprehensive study of the morphology and anatomy of ornamental plants. Discusses growth patterns, environmental relationships and plant relationships and plant reactions to the environment

713 Plants and Civilization (1)

Lecture 1 hour.

Emphasizes the origin of agriculture. Discusses various traditional botany crops and commercial uses of plants. Views agriculture of the future with an erophasis on agriculture continuing to meer the needs of world food

714 Principles of Horticulture (3) CSU

Lecture 3 hours

Offered every Spring and Full sewesters, even years.

Concerns the maintenance work commonly done in home and estate guidens as well as parks and other public areas. Gives attention to lawn care, rechniques of watering, fertilization and weed control.

716 Arboriculture I (Care of Trees and Shrubs) (1)

Lecture I hour.

Offered Fall semesters only

Basic methods of tree and shrub care. Selection, planting and maintenance of trees and shrubs from youth to specimen maturity. Emphasizes cultural aspects as well as selection criteria. Estensive instruction in pruning and shaping.

721 Organic Gardening (1)

Lecture 1 hour.

lumoduces natural methods of food production. Different organic gardening methods; discussion of organic types of fertilizers, composting and pest control methods: sources of natural gardening supplies and natural food cooperatives are covered.

722 Care of Horticulture Equipment I (1)

Lecture I hour.

Studies the selection, storage, maintenance, and care of horticultural tools and equipment with emphasis on hand operated types. Includes sources of equipment, adjustment, service, sharpening, and repair.

723 Care of Horticulture Equipment II (1)

Lecture 1 hours

Prerequisites Agriculture 722.

Studies the selection, storage, maintenance and care of horticulrutal tools and equipment with emphasis on mechanized types (i. r. lawn mowers, chain saws, rotorillers). Includes sources of equipment, adjustment, service, sharpening, repair and overhand.

724 Drip Irrigation Techniques (1) CSU

Lecture I base

Sendies the design, installation and maintenance of drip irrigation systems with emphasis on both theory and practical application to ornamental hornculture and food crop pysduction.

725 Vegetable Production (1) CSU

Discusses production of garden vegetables, preparation of the seed bed. planting, watering and fertilization. Pest control methods, selection of earieties and gardening equipment and tools are topics of instruction.

727 Plant Breeding Techniques (1) CSU

Lecture I home

Prerequiates Agrandour 711 ar 726.

Application of principles of plant improvement through selection, hybridization and utilization of hybrid vigor. Demonstrates breeding techniques necessary to hybridize plants.



732 Urban Farming Techniques (1) CSU

Lecture I hour.

Basic horriculture practices for the urban farmer. Discusses growth habits, reactions and patterns of plants. Discusses gardening in limited spaces both indoors and outdoors. Provides guidance necessary for home production of ornamental plants for both apartment dwellers and homeowners.

745 California Fruit Growing (3) CSU

Lecture 2 hours, laboratory 2 hours

Deals with the selection and care of various finit, note and berries grown in California and suitability for urban landscapes. Discusses pest control, planning, management, selection pruning, and environmental effects.

Discusses both common and exotic fruits. Emphasizes uses in home landscapes.

742 Practicum in Horticulture (5) CSU

Lecture 5 hours.

See whedule of classes for specific espica

Designed to present specific subjects to meet the needs of the horticulture industry and the community-ar-large. Also meets the requirement for communing education for various horticulture industries as dictated by the Agriculture Code of California.

756 Greenhouse Plant Production (3) CSU

Lecture 2 hours: Laboratory 3 hours

Studies the status of the flower and pot plant growing industry. Considers all types of forcing structures, including their parts, maintenance, and use. For both greenhouse and field trinations, studies soil and container mixes, nutritions, light, temperature, ensitures, and pest and disease problems. Identifies flowering and foliage plants in common usage, which are grown in laboratory practice. Includes field trips for observation of industry facilities, methods, and problems.

757 Plant Propagation (3) CSU

Lecture 2 hours: laboratory 3 hours.

Provides practice in plant propagation for commercial or home one.
Requires students to propagate plant materials during laboratory hours.
Discusses propagation methods, structures, diseases, and inject prevention and control of the plants being propagated. Provides laboratory work which includes seeding, transplanting, cutting, budding and grafting, porting and canning.

758 Nursery Practices and Management (3) CSU

Lecture 2 hours; laboratory 2 hours.

Meets the needs of students planning to enter the nursery industry of the fields of landscaping and maintenance. Includes the study of wholesale and retail nursery operations and their relationships to the homeowner and the professional landscape operator. Consists of the actual practices in running the school nursery. Includes field trips to observe commercial nurseries in operation.

759 Techniques of Greenbouse Management (3) CSU

Lecture 2 hours: Laboratory 2 hours.

Prerequisites Agriculture 756.

Management of facilities, cultural operation, crop rotation, scheduling, and record keeping. Provides practical experience in greenhouse management.

760 Indoor Plant Care and Maintenance I (1)

Lecture I howe

Watering, ferrilitation, staking, peuning and planning the boose plant. Discusses soil, light and humidity relationships. Discusses how and where to purchase plants.

761 Indoor Plant Care and Maintenance II (1)

Lectury 1 hour

Prerequisites Agriculture 760.

A continuation of Agriculture 760. Discusses general plant case, percontrol and moubleshooting plant problems. Instruction of the plant maintenance business to include all aspects of customer relations and plant maintenance technician operations.

762 Interior Plantscaping (1)

Lecture 1 hour.

Economic and managerial aspects of plantscaping, Introduces technical aspects of interior design and planting. Emphasis on foliage plant selection and installation and client relationships.

764 Hydroponic Techniques (1)

Lecture 1 hour.

Production of vegetables and other plants hydroponically. Discusses all aspects of hydroponic growing, including soil, fertiliters, nutrient useing, suitable plants and climatic control. Deals with various hydroponic systems and methods.

765 Greenhouse/Nursery Marketing and Sales Techniques (1) Lecture 1 hour

Marketing and selling plant products. Discusses aspects of wholesaling and setailing to include pricing, quality, advertising, and displays. Discusses general operations, associations and local personnel practices.

800 Plant Identification and Use I (3) UC:CSU

Lecture 2 hours: laboratory 2 hours.

Recommended: Agriculture 711 or Bessey 1.

Presents a general course in plant identification, including woody and non-woody kinds. Emphasizes ornamental trees, shrubs, and vines, with some attention to annuals, perennials, flowers, succulents, and grasses. Is planned chiefly for students entering the fields of nursery practices, andscaping, and maintenance.

801 Plant Identification and Use II (3) CSU

Lecture 2 hours; laboratory 2 hours.

Continues Agriculture 800, considering plants used in landscaping and nursery occupations not included in Agriculture 800. Requires a number of field trips for observation of plants and their uses.

802 Plant Identification and Use III (3) CSU

Lecture 2 hours; laboratory 2 hours.

Includes the basic bottany, habita, habitats, and culture of ornamental and fruit most. Emphasizes identification, selection, training, correct placement, planting, and all-around case of trees. Considers problems of pruning, femiliation, pests and diseases and their treatment. Uses demonstrations and field trips largely within the school facilities.

803 Native Plants for the Landscape (3) CSU

Lecture 2 hours; laboratory 2 hours.

Teaches California native plant materials unitable for landscape use. Includes some disought oberant species as well. Emphasizes recognition, selection for specific uses, cultural requirements, and ecology.

804 Landscape Drafting and Graphics (1)

Lecture 1 hours

Basic landscape drafting practices, lettering, line work, symbols, sheet composition and dimensioning. Provides beief introduction to landscape design.

805 Basic Planting Design (1)

Lecture I hose

Prerequisites Agriculture 800 and 801 and 804.

Design and preparation of landscape planting plans. Emphasizes ecological and aesthetic considerations.

806 Landscape Planning and Design (4) *UC:CSU

Lecture 2 hours, laboratory 4 hours.

Includes the fundamental principles of landscape design, drafting, mapping techniques, basic design concepts as applied so residential and commercial developments, and practice in preparing landscape plans for small properties. Students must provide their own drawing equipment.

807 Advanced Landscape Planning and Design (4) *UC:CSU RPT 3

Lecture 2 hours: Laboratory 4 hours

Prerequisites Agriculture 806.

Continues Agriculture 806 with special emphasis on planting design. oriented to commercial aspects, grading plans, communion drawings specifications, cost estimates, and client relationships. Affords practice in solution of more difficult problems.

808 Residential Landscape Design (3) CSU

Lecture 3 hours.

Concestrates our home landscaping and the identification and selection of plant materials suitable for the average small house. Considers tree placement, lawn and ground covers, floral and shrub borders, foundation planting, the outdoor living space, play areas, and service yards. Requires students to complete a landscape plan of their choosing.

811 Landscape Construction Design (1)

Lecture 1 hour

Prerequisites Agriculture 804

Design of basic garden elements (i. e. walls, overheads, pools, steps, fences, decks, and paving). Reviews construction materials and their inherent qualities. Preparation of construction drawings.

812 Landscape Installation and Maintenance I (3) CSU RPT 1

Lecture 2 hours: laboratory 2 hours

Teaches how to install the landscape work commonly done at commercial and residential job sites. Includes sod installation; soil preparation; turf renovation, tree moving equipment, gruning and surgery, injection feeding; lawn header board construction, vertical mulching techniques; planting of shruls, trees, flowers, and ground covers. Covers use and care of operative equipment used by landscaping and maintenance crews, mtorillers, edgers, mowers, sod currers, chainsaws, and use of instruments (manit, builden level, etc.).

813 Landscape Installation and Maintenance II (3) RPT 1

Lecture 2 hours, Inhonatory 2 hours. Prerequisites Agriculture 812.

A continuation of skills and practices in the installation and maintenance of landscape projects. Emphasis will be on maintenance and business

814 Landscape Maintenance Management (3)

Lecture 2 hours: laboratory 2 hours. Prerequisites Agriculture 812

Organization of materials, equipment, and labor for the development of landscape maintenance projects. Emphasis given to records, bidding projects, and management pencedures.

815 Blueprint Reading and Cost Estimating (2)

Lecture 1 hour; laboratory 2 hours

Interpretation of construction drawings and specifications for landscaping, to include quantity counts of material items and estimating costs of labor and materials

816 Grading and Drainage Planning (1) CSU

Proper grading and drainage methodology in the landscape construction industry. Emphasis will be given to industry standards and practices.

817 Landscape Contracting Practices (1) CSU

Lecture 1 bear.

Licensing requirements, serving procedures, and responsibilities of operating as a licensed landscape contractor.

818 Basic Construction Techniques (Landscape Construction) (3) CSU

Lecture 2 hours: laboratory 3 hours

Note: Due to the nature of the class, strenuous activity is necessary on

Includes fundamental concepts, materials and methods of working with earth, wood, concrete, concrete block, brick and stone, and trigation and drainage as they apply to construction. Includes projects, blueprint trading, budget information, use of construction equipment and interamenes as related to projects. Includes operation of power equipment.

819 Advanced Construction Techniques (3)

Lecture 2 hours: laboratory 3 hours Prerequisites Agriculture 818.

Installarion of landscape projects with a minimum of instruction and supervision. Emphasis on responsibility and decision making,

820 Irrigation Design and Installation (3) CSU

Lecture 2 hours: laboratory 2 hours

Studies the importance of irrigation to plant growth as well as the various methods of irrogation with special emphasis on sprinklers and irrigation management procedures.

821 Advanced Irrigation Design (3) CSU RPT 2

Lecture 2 hours: Lebenatory 2 hos Preveguiaites Agraculture 820.

Design of large irrigation system, including multisystem operation, sandline programming, loop systems, pump systems, and installation procedures

822 Turf and Ground Cover Management (3) CSU

Lecture 2 hours; laboratory 2 hours

Studies turfgrames, their characteristics, uses, and management. Covers soils, soil preparation, irrigation, fertilization, insects, weeds, disease, and special management factors. Requires field trips to supplement class work.

823 Advanced Turf and Ground Cover Management (3) CSU

Lecture 2 hours: laboratory 2 hours Prerequisite: Agriculture 822.

Includes study of the following topics: equipment used with turfgrass management, soil aerification and thatch chotrol irrigation, including drainage requirements and the use of wetting agents; sprinkler system design, checking and repair; disease, insect and weed identification and control; landscape shrubs and tree maintenance; record keeping and budgeting; personnel management and public relations.

824 Turf Equipment Use and Maintenance (1)

Types of equipment used to maintain commercial rurf areas (i. e. golf courses, parks, condominiums). Emphasis is on selection, operation and maintenance.

826 Computer Landscape Design (3)

Provide basic training in the theory and peactices of computer aided drafting and design (CAD). Emphasis will be placed on drawing and design solutions as they apply to the landscape industry. Both operating and application software is discussed and utilized to produce design solutions.

840 Introduction to Pest Management (3) CSU

Leesure 2 bours: laboratory 2 bours.

Coven the identification and control of insect pests common to agricultural crops inclusive of ornamentals, the identification and the knowledge and control of common rodents and their effect upon agricultural production. Resputes identification collection of insects by each student, and field work to supplement class and laboratory work.



841 Insect Pest Control (3)

Lecture 2 hours; laboratory 2 hours. Prerequisites Agriculture 840.

Presents detailed study of economically important insect pents destructive to plant life in Southern California. Carefully reviews life histories of pents, oriented to efficient control techniques, especially on a commercial level. Discusses the larest information on insecticibes and practical field problems. Requires identification collections of insects, and field trip to supplement class work.

842 Plant Disease (3)

Lecture 2 boson: Lebonstory 2 boson.

Comprehensive study of the causes and effects of diseases in plants, discusses the nature of fungi, bacteria, virus and physiological plant publicus and their control.

843 Weed Control (3) CSU

Lecture 2 hours; Laboratory 2 hours,

Identification, life histories and compols of common, notions and pointness weeds; weed control methods for landscapes, nurseries, parkways and for various crops.

844 Integrated Pest Management (3) CSU

Lecture 2 hours, laboratory 2 hours,

Prerequisites Agriculture 840 and 841.

Integrated approach to plant protestion utilizing all methods of pest control, selection criteria for controls accepted, problem solving and recommendation seriting.

845 Biological Pest Control (1)

Lecture I hour

Natural approach to pest management based on understanding agro-ecosystems. Counted of intects, mates and words using paratites and pordators. Insectury operations, collection and release methods.

848 Training for Pest Control License (3)

Leiture 3 hours

Covers the subject matter of the examination for Agricultural Pest Control Advisers License.

849 Nematode Control (1)

Encruse I June

Paramic nemanides, their identification, clanification and structure. Nemanide sampling, damage, diseases and control measures.

851 Vertebrate Pest Control (1)

Lecture Thous

Venebrate pests injurious to agricultural crops. Identification, life histories, and control methods. Covers gophers, ground squinris, mice, tats, and others.

852 Residential Pest Central (1)

Lesture I hour

Identification of and countd methods for common pents found amound the homestead, including indoor and mudoor pents, ornamental, fruit, and vegetable pents.

896 Horticulture Projects (6) CSU

Laboratory 12 Journ

Involves planning, developing, and completing an individual barticultural production project under the guidance of a faculty advisor, on se off the college campus.

901 Natural Resources Conservation (3) *UC:CSU

Leaver 5 hours.

Same as Environmental Science 5

Corequisites Agriculture 902 for all NRM majors.

Surveys the development of the conservation ethic in the United States and abroad and human populations in relation to natural resources. Examines the ecological hasis of conservation, major ecosystems, their energy flow and resource relationships. Discusses plant and animal population dynamics, pollution, and pere control. Covers current government programs, legislation, and activities of conservation organizations. Studies practical conservation procedures and research applicable to improving environmental resources including soil, water, forests, fisheries, wildlife (including endangered species), air, and open spaces.

902 Natural Resources Laboratory (1) CSU

Laboratory 2 hours.

Corequisites Agriculture 901.

Involves practical field work in the Nature Center and a study of natural plant and animal communities of California. Includes maintenance, planting procedures, and conservation concepts practiced in local, state, and national parks. Field trips required.

905 Introduction to Outdoor Recreation (2) CSU

Lecture 2 hours.

Soudies the development and management of rural and urban recreational enterprises. Includes a study of national and state parks, forests and historical sites. Covers practical recreational practices, including the development and operation of rural and urban pictus, assimming, boating, horseback riding, hunting preserves, and fishing waters.

906 Outdoor Recreation Management Laboratory (1) CSU

Laboratory 2 hours.

Corequisites Agriculture 905.

levelves field trips to various local agencies to observe and discuss recreational development, facilities, and people management. Includes urban, rural, and private recreation operations. Covers career and job opportunities.

920 Natural Resources Construction Techniques (2) CSU

Lecture 2 hours: Lehonstory 2 hours

Includes concepts of basic plumbing and working with concert, wood, and earth as applied to wildland use and recreational facilities. Trail byour and construction, stream modification and check-dam construction included. Teaches plans, materials, and cost analysis of projects. Covers use of hand tools and power equipment. Nature Canyon and agricultural areas will be utilized for projects.

931 Natural Resource Measurement (2) CSU

Lecture I hour; laboratory I hours.

Techniques of field data collection for the natural resources, including soil, water, planes, and animals. Covers tools, sampling techniques, data collection methods, and the organization and presentation of field data.

940 Introduction to Forest Management (2) UC:CSU

Lecture 2 bours

Presents the history of forestry and the lumber industry, the development of the profession, forest legislation, and the forest resources, its management and utilization. Studies the various disciplines and sciences involved in forest management, forestry as related to environment and society, and explores job opportunities.

941 Forest Management Laboratory (1)

Laboratory 2 hours.

Corequisites Agriculture 940

Involves practical work, forest numery procedums, tree identification, tree planning techniques. Also covers forest measurements and other aspects of the forest as a multiple-use resource. Field trip to selected locations. Includes career and job opportunities.

942 Urban Forestry (2)

Lecture I bour; laboratory 2 hours.

Studies the emerging interest in developing and managing urban forces. Includes the environmental uses and benefits of trees in the urban environment; street tree and park plantings; windbridgs and climate moderating effects. Covers the use of trees as an energy source including recycling and furthwood concepts. Field crips required.

944 Global Forestry (2)

Lecture 2 hours

Examines the world's forests, their extent, tratus, and values. Discusses the cultural and social values of forests, and their value in world economic development. Includes current innes of deforestation, global warming, and agriforestry. Covers career opportunities.

950 Introduction to Wildlife Management (2) CSU

Lecture 2 hours.

Presents the history of wildlife management and current wildlife problems, including the ecology of wildlife, migrational patterns, and population dynamics. Considers the emerging national interest in wildlife and reviews wildlife literature and careers.

951 Wildlife Management Laboratory (1)

Laboratory 2 bours

Animal species life history study and field identification. Field trips to ranious wildlife managersent agencies and areas. Practical work in habitat analysis and improvement procedures. Career and job opportunities.

960 Wildland Fire Science (2) CSU

Lecture 2 hours.

Provides the NRM major with a fundamental knowledge of the factors affecting wildland für pervention, füre behavior, and control techniques. Covers für ecology, effects on other resources, and the use of prescribed fire.

961 Wildland Fire Science Laboratory (1)

Laboratory 2 hours.

Corequisite Agriculture 960.

Combines field trip and the application of wildland fire science and control procedures to the development of a fire control plan Emphasizes the use of maps and analysis of segetation, terrain, and land use as applied to fite protection and control.

970 Range Management (3) CSU

Lecture 2 hours: Inhonatory 2 hours.

Applies principles of range management to the unlivation and conservation of land resources. Undertakes a study of range vegetation, soil conditions, and evaluation of livestock grazing problems and peactices. Emphasizes California land conditions, Includes several field trips for observation work.

975 California Native Plants (3) CSU

Lecture 2 hours: laboratory 2 hours.

Native plants of Southern California. Emphasizes identification, plant community concepts, and native plant ecology. Carrest the use of identification keys, classification concepts, and management implications of the various segretation types. Intended primarily for NRM majors.

185 Directed Study - Agriculture (1) CSU RPT 2

285 Directed Study - Agriculture (2) CSU

385 Directed Study -Agriculture (3) CSU

Conference I hear per unit

Allows students to pursue Directed Study in Agriculture on a contract basis under the direction of a supervising instructor.

911, 921, 971, 981

Cooperative Work Experience Education -Agriculture

See Conpensative Wirel Experience Education

*UC Credit Limit: Maximum of one course.

American Sign Language/ Interpreting

1 American Sign Language I (4) UC:CSU

Lecture 4 hours.

Normally offered in the Fall semester only.

Develops busic vocabulary and grammar of American Sign Language. Emphasia is placed on receptive skills. Incorporates vital aspects of the Deaf culture and community.

2 American Sign Language II (4) UC:CSU

Lecture 4 hours.

Prerequisite: American Sign Language I with a grade of 'C' or better or entirelest.

Normally offered in the Spring semester only

Completes the study of elementary vocabulary and grammar. Increased development of inflectional and nonmanual behavior patterns. Incorporation of selected aspects of Deaf culture and community within receptive and expressive conversations.

3 American Sign Language III (4) UC:CSU

Lecture 4 hours

Prevegulates American Sign Language 2 with a grade of "C" or better or equivalent.

Suggested concurrent entellment in American Sign Language 30. Normally affered in the Fall sementer only.

Continued development of American Sign Language grammat, with special emphasis on idiomatic constructions. Provides further development of conversational techniques focusing on expressive skills. Expanded study of Deaf cultural issues.

4 American Sign Language IV (4) UC:CSU

Lecture 4 hours

Prerequisites American Sign Language 3 with a grade of "C" or bezies. Suggested concurrent enrollment in American Sign Language 32. Normally affered in the Spring semester only.

Advanced study of American Sign Language vocabulary and grammar. Further development and refinement of American Sign Language skills and fluency. Accommutes supects of Deaf culture and community through spontaneously generated conversations.

5 Introduction to Interpreting (3) CSU

Lecture 5 hours.

Prerequisites American Sign Language 3 with a grade of "C" or hence. Suggested somewness entulinant in American Sign Language 4. Narmally affered to the Spring temester only.

Surveys the basic theories, guidelines, principles, and practices of interpreting/transforrating, including as historical overviess, role of the interpreter, and analysis of various sign systems.

6 Voice to Sign Interpreting I (4) CSU

Lecture 5 boxes; behaviory 2 boxes.

narratives, and lectures,

Prerequisites American Sign Language 4 and 5 with a grade of "C" or latter

Suggested concurrent excultance in American Sign Language 10. Normally offered in the Fall somester only

Lecture Development of voice-to-sign interpreting/transfinerating skills

on a beginning level.

Laboratory: Provides the interpreter education student with "hands-on" experience in the interpreting situation. Students will have directed practice in interpreting a variety of communication settings, dialogues,



7 Voice to Sign Interpreting II (4) CSU

Leence 3 hours: laboratory 2 hours.

Prerequisitor American Sign Language & with a grade of "C" or hetter. Suggested concurrent entallment in American Sign Language 11.

Recommendeds English 101.

Normally affered in the Spring unicates only.

Lecture: Continuer development of voice-us-sign interpreting/transliterating skills on an intermediate level.

Laboratorye Provides the interpreted education students with "hands-on" experience in the interpreting situation. Students will have directed practice in anterpreting a variety of communication settings, dialogues, narratives, and lectures.

19 Sign to Voice Interpreting I (4) CSU

Lecture 3 hours: Laboratory 2 hours.

Prerequisites American Sign Language 4 and 5 with a goade of 'C. or better Suggested concurrent enrollment in American Sign Language 6s. Normally affered in the Fall america only.

Lectures Development of sign-m-voice interporting/transferrating techniques and principles on a beginning level.

Laboratorye Provides practical application of sign-m-voice techniques and

experiential development of sign-to-voice skills.

11 Sign to Voice Interpreting II (4) CSU

Lecture 3 hours; Inhonatory 2 hours.

Prerequisite: American Sign Language 10 usish a grade of "C" or botton Recommended: Speech Communication 102.

Suggested concurrent enrollment in American Sign Language 7. Normally offered in the Spring transact only.

Continues development of sign-to-voice interpreting/transforming skills on an advanced level.

12 Specialized Interpreting (3) CSU

Leanury 5 hours.

Prerequisite: American Sign Language & Normally offered in the Spring sementer only

Develops student's knowledge in various specialized areas of inserpreting, for example, educational, religious, legal, and medical.

15 ASL Linguistics (3) CSU

Leaver 3 hours.

Prerequisite: American Sign Language 2: and Anthropology 104 or Linguistics 1 or equivalent

Provides the student with information and insearch concerning the phoneric, morphological, syntactic, and semantic properties of American Sign Language. Covers neurolinguistics, psycholinguistics, and sociolinguistics, as well as comparative studies of natural signed languages.

16 Creative Signing (2) CSU

Lerson 2 hours

Prerequisites American Sign Language 2.

Suggested concurrent enrollment in American Sign Language 3.

Normally offered in the Fall semelter only.

Studies techniques of facial expression, characterization, body movement, and spatialization as it relates to American Sign Language. Development of expressive sign language skills through the use of poetry, songs, and tkirs.

17 Ethics and Professional Standards of Interpreting (3) CSU

Lecture 3 hours

Prerequisite: American Sign Language 5:

Suggested concurrent enrollment in American Sign Language 6.

Mormally offered in the Fall tentester only

Discussion and application of the Code of Ethics published by Registry of Interpreters for the Deaf. Provides experience in appropriately solving ethical problems related to the professional environment.

American Sign Language Laboratory (1) CSU RPT 1

Laboratory 3 hours.

Corequisites American Sign Language 1, or higher.

Provides opportunities for practical conventation on everyday topics, cultural material, and expansion of vocabulary according to student interest or need.

30 Fingerspelling I (1) CSU

abonatory 2 hours.

Prerequisites American Sign Language 1 or equivalent. Normally offered in the Fall semester only

Develops skills in expressive and receptive use of the Manual Alphabés. Deals with specific individual problems and techniques for corrections.

31 Fingerspelling II (1) CSU

Laboratory 2 hours.

Prerequisites American Sign Larguage 30 with a grade of "C" or better or oppositions.

Normally offered in the Spring semester only.

Continued development of expressive and receptive Manual Alphabet skills.

40 Introduction to Deaf Culture (3) UC:CSU

Locture 3 bours

Prerequisites American Sign Language 2 and suggested concurrent corollment in American Sign Language 3. Normally offered in the Full senseties only.

Covert hinorical, philosophical, educational, psychological and social aspects of the deaf and hearing impaired. Emphasizes Deaf culture and the social processes affecting and influencing its member.

185 Directed Study - American Sign Language (1) RPT 2

285 Directed Study - American Sign Language (2)

385 Directed Study - American Sign Language (3)

Conference 1 hour per unit

Prerequisites American Sign Language I or equivalent

Allows students to pursue Directed Study in American Sign Language on a contract basis under the direction of a supervising instructor.

Anatomy

See also Physiology

1 Introduction to Human Anatomy (4) UC:CSU (CAN BIOL 10)

Lecture 3 hours; laboratory 3 hours.

Prerequisites Biology 3 or 6 with a grade of "C" or better. Notes An anatomy and physiology requirement can also be satisfied by Physiology 8 followed by Physiology 9. (See Physiology).

Provides a basic course in human anatomy. Includes fectures and demonstrations on human organs and organ systems. Requires each student to dissect mainmalian organs that are comparable in structure to the human organs, and to work with a dissected human cadaver.

Anthropology

101 Human Biological Evolution (3) UC:CSU (CAN ANTH 2)

Leceuse 3 hours

May be offered as an honors section.

Explores the field of Biological Anthropology emphasizing the evolution of the human species. Topics include human heredity, mechanisms of evolutionary change, human variation, and the reconstruction of human evolutionary history through examination of the fossil record and comparative studies of our closest biological relatives, the living monkeys and spec.

102 Human Ways of Life: Cultural Anthropology (3) UC:CSU (CAN ANTH 4)

Lecture 3 hours

Presents a broad survey of human culture including the study of human society, language, religion, political and economic organization, with examples drawn from contemporary preliterate, peasant, and urban societies.

103 Archaeology: Reconstructing the Human Past (3) UC:CSU Lecture 1 Insur.

Considers Archaeology as an integral part of the larger field of Authopology. Course deals with the methods the archaeologist uses to view the world of the past. The methods discussed illustrate the rechniques used by the archaeologist to gather and interpret the data recovered from excavation.

104 Human Language and Communication (3) UC:CSU

Lecture 3 hours

Same as Longuistics 1. Credit not given for high sources.

This introductory course in linguistics surveys the great variety of ways humans communicate, both verbally and non-verbally. Focuses on the structure, function, and history of language, with selections on the sociology and psychology of language, language learning, and the origins and evolution of language.

105 Prehistoric Peoples (3) UC:CSU

Lecture 3 hours.

A survey of world prehistory from the earliest evidence of the origin of culture to the development of urbanization. The prehistoric process and sequence for various parts of the world will be examined, including Europe, the Americas, Africa, and Asia.

111 Laboratory in Human Biological Evolution (2) UC:CSU

Lecture 1 hour; laboratory 2 hours

Prerequisites Anthropology 101, or concurrent euroliment.

Offers laboratory exploration of selected topics in biological authropology including generics, human variation, the living primates, and human paleontology.

113 Field Archaeology (3) CSU RPT 1

Lecture I bear; laboratory 6 hours.
Mornially offered in the Spring semester only.

Presents an introduction to the theory and method of field work in Archaeology. This is a class in archaeological recavation and related data gathering methods. The course emphasizes field sechniques through actual student participation in excavation, meyey and related field methods.

121 Anthropology of Religion, Magic, and Witchcraft (3) UC:CSU

An anthropological examination of the phenomenon of religion. Emphasis will be placed upon how religion is integrated into culture. The course includes an examination of the ideas that have been developed by anthropologies about how humain, relate to their notion of the supernatural.

132 North American Indians (3) UC:CSU

Lecture 3 hours

Offers a house survey of the American Indians living north of Mexico. Special emphasis is placed on the Indians of California. The various aboriginal gamps surveyed are viewed as they existed as the time of historical contact.

141 Medical Anthropology (3) CSU

Lecture 3 hours

By comparing a wide range of different kinds of health/healing systems in ancient as well as modern nations, this course examines how medicine reflects changing attender, religious beliefs, policies and technology. Practices in China, India, Egypt, Peru, Mexico, and Canada will be compared. However, focus is on the U. S., and includes correct somes such as environmental and social causes of disease, tights to live/die, prevenerse holionic care, teligious healings, genetic engineering and tederally paid amerance programs.

150 Current Topics in Anthropology (3) 1UC:CSU

Lecture & boson

Discusses selected topics of current interest in the fields of Biological Anthropology, Cultural Anthropology, Archaeology, and Linguistics.

185 Directed Study - Anthropology (1) TUC:CSU RPT 2

285 Directed Study - Anthropology (2) TUC:CSU

385 Directed Study - Anthropology (3) †UC:CSU

Conference I have per unit.

Prerequisites Any two of the following courses: Muchopology 101, 102, 103, 104.

Allows students to pursue Directed Study in Anthropology on a contract basis under the direction of a supervising instructor.

Architecture

UC Credit Limit: Maximum of 17 units.

1 Introduction to Architecture (1) UC:CSU RPT 1

Lecture I bour.

UC Credit Limit: Maximum one unit

Introductory course exploring the fields of architecture and construction technology. Students will gain an understanding of architecture and construction technology programs. Visins to architects' offices, building tires, and advanced schools of architecture.

5 Architectural Drawing I (3) CSU

Lecture 1 hour, Laboratory 5 hours.

Teaches the techniques of architectural deafting, its conventions and symbols through the preparation of simple construction details and drawings. Surveys the scope and personal requirements of the architectural profession and related building trades.

6 Architectural Drawing II (3) CSU

Lecture 1 hour; laboratory 5 hours.

Prerequisites Architecture 5 with a grade of C as better

Develops drafting skill and fundamental understanding of building by preparing working drawings with necessary details for wood frame construction.

7 Architectural Drawing III (3) CSU

Lecture 1 hour, laboratory 5 hours. Prerequisite: Architecture 5 or 6.

Offers a study of construction methods, materials, and building ordinances. Requires students to prepare detail drawings for commercial buildings in concrete and strel or similar problems.

8 Architectural Drawing IV (3) CSU

Lecture 1 hour; Laboratory 5 hours. Prerequisite: Architecture 6 se 7.

Offers a study of construction methods, materials, and building ordinances. Requires students to prepare design and preliminary drawings for small commercial-type building or similar problems.

9 Elements of Design Theory (4) UC:CSU

Lecture I hour, Laboratory 5 hours.

Introduces the principles of two dimensional design common to architecture and visual arts. Integrates the theory of architectural design with historical and cultural foundations. Develops analytical skills in visual perception and critical awareness.



Freehand Drawing I (2) UC:CSU RPT 1

Lecture 2 hours: Laboratory 2 hours Corequisites Architecture 12. Offered Fall semesters only

Drawing shility as developed primarily by pencil, ink, and watercolor Study is made of composition, form, value, and scale, and centers mainly on drawing development employing architectural furms.

12 Architectural Rendering (2) CSU

Lecture 1 bour; Lebenstory 3 hours. Corequisite: Architecture 10. Offered Fall semesters only.

Teaches the rechniques of graphic tendering using various media. Strenes both freehand drawing and drafting board methods.

15 Applied Descriptive Geometry (2) CSU

Lecture 1 hour; laboratory 3 hours.

Some as Industrial Technology 218. Credit not given for bath courses.

Prerequisite: One semister of architecture.

Provides training in the analysis and solution of orthographic projection problems. Emphasis is placed on solving three-dimensional space problems by exposure to and interpretation of points, lines, and planes in primary, secondary, and successive auxiliary views. Theory and practice are included that involve vinualization and graphic representation of intersections, angles, parallelism, perpendicularity, and revolutions. Orthographic and pictorial abstract examples are taken from engineering disciplines related to design and industrial technology.

Strength of Architectural Materials I (3) CSU

Lecture 3 howes Offered Fall semesters only

lacludes material relative to the strength, mechanical principles and design (stresses, tension, compression, shear, and bending) of building marrials, and their uses in foundations, finors, walls, columns, and more

Methods of Construction (2) CSU

Lecture 2 hours

Emphasises methods of construction in wood, seel and concrete

Materials of Construction (3) CSU

Lecture 3 bours

Prerequisites Architecture 5 and 20.

Studies the nature and characteristics of materials, along with their appropriate uses for given construction purposes.

22 Equipment of Buildings (3) CSU

LICENST 3 bears

Prerequisites Architecture 5 and 20.

Offered Full sewesters only.

Applies the basic principles of design, selection and operation of equipment in buildings to water, plumbing, heating, air conditioning, lighting and acoustics.

Construction Estimating (3) CSU

Lecture 3 hours

Studies methods used in determining quantities and costs of labor and materials as related to construction.

Residential Planning (3) CSU RPT 3

Lecture I hour; lebonstery 5 hours. Prerequisites Aschitectury 5.

Offered Fall semesters unly.

Offers a sendy of the single family residence, in layour, liveshility, size, prientation, cost. furnishings, equipment and decoration.

33 Basic Architectural Design I (3) UC:CSU

Lecture 1 hour; Laboratory 5 hours Prerequisites Archivecture 5 and 9.

Explores the nature and limitations of materials using two-dimensional studies of form and composition in black and white and color.

34 Basic Architectural Design II (3) UC:CSU

Lecture 1 hour, laboratory 5 hours

Prerequisites Architecture 9 or 33.

Extends the theory of color and the use of various materials in threedimensional compositions.

37 Computer Aided Design and Drafting (3)

Lecture 1 hour; Lebonetory 5 hours Prerequisites Architecture 5 and 6. Offered Fall semesters only.

An introduction to computer design and drafting for architecture. Provides a survey of current CAD systems plus hands-on experience.

41 Architectural Model Building (2) UC:CSU

Lecture I hour, Laboratory 3 hours.

Acquaints students of architecture with the techniques and materials for constructing architectural study models.

52 Concrete Construction Design and Practice (3) CSU

Lecture 3 hours.

Offen a practical introduction to modern concrete design theory and construction practices as employed in the construction of buildings, roads. flood control works, and miscellaneous structures.

185 Directed Study - Architecture (1) CSU RPT 2

285 Directed Study - Architecture (2) CSU

385 Directed Study - Architecture (3) CSU

Conference I hour per unit.

Allows students to pursue Directed Study in Architecture on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Architecture

See Cooperative Work Experience Education

101 Survey of Art History I (3) UC:CSU (CAN ART 2)

Lecture 5 hours

A survey of architecture, aculpture, and painting from the prehimeric, ancient, classical and medieval periods.

102 Survey of Art History II (3) UC:CSU (CAN ART 4)

Lecture 5 hours.

May be offered as an benoes section.

Note: Art 101 is not a prerequitive for 102.

A survey of painting, sculpture, and architecture of the Western tradition from the fourteenth century to the twentieth century. Study is given to style, iconography, and the social, political, and economic context that accompanies a work of art.

103 Art Appreciation I (3) UC:CSU

Lecture 3 hours.

Furthers the understanding and appreciation of the visual arts. Recommended for the non-Art major. Recommended but not inquired of Art majors.

111 History of Contemporary Art (3) UC:CSU

Lecture 3 hours.

Offered Spring sometten only

Covers major trends in art from 1900 to the present day. Works of art are presented through slide presentations, class discussion and field trips to museums, galleries and artists' studios.

132 Technical Illustration I (4)

Lecture 2 hours; laboratory 4 hours.

This course may not be offered each semester. Check your current Schodule of Clases.

Offers production illustration with particular attention to the principles of isometric drawing and includes the transposition of orthographic views to three dimensional isometric representation.

133 Technical Illustration II (4)

Lecture 2 hours: Laboratory 4 hours.

Prerequisites Art 132

This course may not be affered each tentester. Check your current Schedule of Clases.

Continues Technical Illustration I with extended projects, and introduces students to areas of schematics, charts and graphs, industrial posters, and various types of visual aids.

134 Production Illustration I (4) CSU RPT 4

Lecture 2 hours: Laboratory 4 hours.

Prerequisites Art 143

This source may not be affered each semester. Check your current Schedule of Classes.

Further explores areas covered in Art 133. In addition applies the use of oethographics and two point perspective to the Technical field. Freehand Illustration rechniques are developed. Rendering enethods of technical art for specialized reproduction are studied. Introduction to Apple-Macintosh computes fundamentals with basic projects in orthographic format.

135 Production Illustration II (4) CSU

Lecture 2 hours: Laboratory & hours.

Prerequisites Art 134.

This course may not be offered each consister. Check your current Schedule of Clause.

Covers advanced projects isometric, dimetric, trimetric, and perspective. illustration. Expands students' knowledge of the source of technical illustration. Major illustrations are executed in the areas of exploded views, section-cuts, and an for slide and overhead transparencies. Students will crease 2 and 3 dimensional drawings on state of the art Apple-Macintush equipment.

137 Architectural History I: Prehistory to the Middle Ages (3) UC:CSU

Lection 3 hours.

Offered alternate Fall tempton.

Covers the history of architectuse from puthistory to the Middle Ages. Stresses development of cypology as well as an examination of the influence of social cultural, religious, policical, and economic conditions that influenced changes in form and style.

138 Architectural History II: Late Middle Ages to Modern (3) UC:CSU Learne 3 hours.

Offered alternate Spring tempters.

Covers the history of architecture from the late middle ages to the modern period. Focuses on changing types, as well as on rechnological advancements in building materials. Literary movements as well as social, rennomic, religious, and policical influences will be stressed

139 Architectural History III: Modern Architecture (3) UC:CSU

Offered alternate Fall semesters.

Covers the modern period of architecture, examining the changing range of architectural types, the influence of flaubaus, the theoretical schools and the sociopolitical impact on the look of buildings

201 Drawing I (3) UC:CSU (CAN ART B)

Lecture 2 hours: Laboratory 2 hours

Involves a variety of media, emphanting visual perception, critical analysis, art fundamental, and cultural history of drawing.

202 Drawing II (3) UC:CSU

Lecture 2 hours, Laboratory 2 hours. Prerequisites Ass 201.

Extends the experiences of basic drawing with special emphasis upon pictorial organization. Stresses himorical cultural evolution of drawing,

204 - Life Drawing I (3) UC:CSU

Lecture 2 hours: Laboratory 2 hours.

Studies construction of and composition with the human figure. Stresses critical analysis of the use of the figure in historical convex.

205 Life Drawing II (3) UC:CSU

Lecture 2 hours, Laboratory 2 hours.

Prerequisites Art 204.

Communion of Life Drawing L emphasizing figure construction and composition applying a variety of media and concepts.

206 Life Drawing III (3) UC:CSU

Prerequisites Ars 205.

Lecture 2 hours; laboratory 2 hours. Continuation of figure construction and composition applying a variety of media concepts.

207 Life Drawing IV (3) UC:CSU

Lecture 2 hours; behoverary 2 hours.

Prerequisites Art 206.

Continuation of figure construction and composition applying a variety of mals and rechniques. Independent projects are stresse

209 Perspective Drawing I (3) UC:CSU

Lecture 2 hours, Laboratory 2 hours.

Develops the understanding and manual skills necessary in the making of drawings which accurately represent thrre-dimensional forms in one-, two- and three-point perspective, with multiple secondary vanishing

300 Introduction to Painting (3) UC:CSU (CAN ART 10)

Lection 2 hours: laboratory 2 hours.

Stresses variety of rechniques in use of medium. Emphasis on cultural history and criticism in field of painting.

301 Watercolor Painting I (3) UC:CSU

Lecture 2 beam, laboratory 2 hears.
This course may not be offered each semester. Check your current Schedule of Clauses.

Offers experience in a variety of techniques. Emphasis on cultural history and criticism in field of watercolor painting.

302 Watercolor Painting II (3) UC:CSU

Lecture 2 hours; Lehoratory 2 hours.

Prerequisites Art 301

This course may not be offered each semister. Check your current Schedule of Clanes

Continuation of Watercolor I. Emphasia on composition through perceptual and conceptual approaches. Theory, history, and criticism in field of watercolor painting.

304 Acrylic Painting I (3) UC:CSU

Lecture 2 hours; Laboratory 2 hours. Prerequisites Art 300 with a goude of "C" or better.

Continuation of Art 300.

305 Acrylic Painting II (3) UC:CSU

Lecture 2 hours: laboratory 2 hours. Prerequisites Art 304

Continuation of Art 304.

306 Acrylic Painting III (3) UC:CSU

Lecture 2 bours: laboratory 2 hours. Prerequialter Art 305

Continuation of Art 305.



307 Oil Painting I (3) UC:CSU

Laboratory & hours.

This course may not be affered each semanter. Check your current Schedule of Change.

Stresses skills and techniques in the medium. Both traditional and communicary approaches to ideas and materials are explored as a means of developing personal and/or professional expression.

400 Introduction to Printmaking (3) UC:CSU

Lecture 1 hour; laboratory 5 hours

This course may not be affered each unnister. Check your current Schedule of Classes.

Introduces students to basic printmaking processes such as exchingsilks reen, lithography, wood block and lineleum block printing.

401 Etching I (3) UC:CSU

Lecture I hour: Johannary 5 Journ

This criers may not be offered each semester. Check your exercise Schedule of Clesses.

Provides instruction in traditional and contemporary forms of exching and related integlio processes.

402 Etching II (3) UC:CSU

Prerequisiter Art 401.

Lecture 1 hours, behongung 5 hours,

This course way not be offered each somester. Check your extreme Schedule of Classes

Provides further exploration of etching and related intuglio processes such as embossed prints, collagraphs and engraving. Emphasines color printing,

403 Lithography I (3) UC:CSU

Lecture 1 hour; Saluratory 5 hours

Recommended: Ars 201

This course may may be affered each semester. Check your current Schoolale of Classes.

Introduces students to traditional methods of lohography. Coverx a history of prints. Integrates theory and practice in a historical foundation.

404 Lithography II (3) UC:CSU

Lecture I hour; Liboratory 5 hours.

Prerequisites Art 403.

This course may not be affered each somester. Check your current Schoolale of Classes.

Continues study in lithography by introducing students to consemporary processes. Discusses masketing of prints.

405 Silkscreen Printmaking I (3) UC:CSU

Lecture I hour, laboratory 5 hours.

Recommended: Art 400 and 501.

This round may not be affered each semester. Check your current Schedule of Clause.

Introduces students to the basic silluctorn processes.

406 Silkscreen Printmaking II (3) UC:CSU

Lecture 1 hours laboratory 5 hours.

Prerequirites Art 405.

This course may not be offered each semester. Check your current Schedule of Cleans.

Students further explore the possibilities of the alliscreen process, gain an enhanced critical awareness, and learn about the marketing of prinos.

407 Relief Printmaking 1 (3) UC:CSU

Lecture 1 hour; laboratory 5 hours.

Recommended: Act 400

This course may not be affered each sometime. Check your current Schoolsde of Classes.

Student learns traditional relief printing techniques such as wood and linefeum block printing.

408 Relief Printmaking II (3) UC:CSU

Lecture 1 hours, laboratory 5 hours.

Prerequisites Art 407.

This squire may not be offered each somester. Check your exerent Schoolale of Choses.

Introduces contemporary and experimental forms of relief printing such as collagraphs, emboused prints, planer prints, and paper making. Further develops analysical skills and critical analysis.

500 Introduction to Design (3) UC:CSU

Lecture 2 hours: Inhonesory 2 hours.
Planned to satisfy the General Education Requirement in Art for non-Art
majors: also recommended for Art majors.
This course may use be offered each seminare. Check your current.
Schedule of Classes.

Provides an immediaction to art. Integrates the theory of design with historical and cultural foundations. Applies basic design techniques to problems in visual perception and critical analysis.

501 Beginning Two-Dimensional Design (3) UC:CSU (CAN ART 14) Lecture 2 Inner: Inheritary 2 Inner.

A minimum of 5 hours per week outside preparation is required. Introduces the elements and principles of pro-dimensional design common to the visual arts. Integrates the theory of design with historical and cultural foundations. Applies basic design techniques to problems in visual perception and critical analysis.

502 Beginning Three-Dimensional Design (3) UC:CSU (CAN ART 16) Lecture 2 Journ Laboratory 2 Journ.

formulaces the principles of three-dimensional design unliking a variety of techniques. Integraces the theory of design with historical and cultural foundations. Develops analytical skills and critical assartness.

604 Graphic Design I (3) CSU

Lecture 2 lines: Lebonstory 2 hours.

Advancy Prep. Act 501

Note: Are 604 has replaced 613 as a Graphic Design major requestment Introductory graphic design: the field, its terminology, tools and working methods. The problem/projects consist of graphic design assignments for selected media. Introduction to computer graphics on the Mac.

605 Graphic Design II (3) CSU

Lecture 2 hours: laboratory 2 hours Advinery Prep. Ars 201 Precoquisites Ars 604

A continuation of the principles of Art 604. Projects in advertising, publication design, packaging and corporate identity. Continuation of computer graphics on the Mac.

606 Graphic Design III (3) CSU

Lecture 2 hours; laboratory 2 hours.

Preroquisite: Art 605

Continuation of principles of Art 605. Graphic design workshop including computer graphics. Emphasis on cosporate identity (logos, letterheads and promotional communications.) Portfolio preparation and evaluation.

613 Graphic Design (3)

Lecture 2 hours: laboratory 2 hours. Recommended: Art 501 and 201.

This course may not be offered each semesser. Check your current Schedule of Cheses.

Note: Art 604 has replaced 613 as a Graphic Design major requirement. A course introducing visual communication with emphasis on design, layout, typography and Mac computers. Problems consist of graphic design assignments for selected media.

614 Graphic Communications ! (4)

Lecture 2 hours; Laboratory & hours

Recommended: Arc 501, 201.

This course may not be affered each sensesser. Check your current Schoolade of Chouer

Note: Art 604 his replaced 613 as a Complete Design major requirement Introduces visual communication with emphasis on advertising art and design. Included are principles of advertising, advertising modus, layout, lemming, and the preparation of artwork for printing. Introduction to Mac computers, and graphic applications. Pagemaker, Freehand, and Physicolicop.

615 Graphic Communications II (4)

Lecture 2 forum; faluntiony 4 hours.

Prerequisites Art 614 or Art 604.

This course may not be offered each semester. Clock your extrens Schodule of Cleans.

Continues Art 614 with greater emphasis upon graphic design skills and knowledge of contemporary processes in layout, preparation of arrange, and printing processes as they relate to the work of the advertising designer. Further refining of computer skills with Payemaker, Freehand, and Photosburg.

616 Graphic Communications III (4)

Lecture 2 hours: Laboratory 4 hours

Prerequisites Ass 675 or Ass 605.

This course may not be affered each amount. Theck your current Schedule of Clause.

Continues studies in advertising, graphic design and layout, illustration, photography, and the operation of a graphic computer workstation than would be used in a job situation.

617 Graphic Communications IV (4)

Leegure 2 bours: laboratory 4 hours

Prerequirites Art 616 or Art 606

Reviews and extends the factual numerial and practical skills included in previous courses. Includes preparation of a portfolio of student's work for use in obtaining employment.

620 Illustration I (3) CSU

Lecture 2 hours, laboratory 2 hours. Prerequisites Art 201, 209.

Applies basic drawing techniques and design principles to problems in advertising and editorial illustration. Students will explore a variety of media and approaches oriented to contemporary demands in the field

621 Illustration It (3)

Lecture 2 hours: Inbonasary 2 hours. Prerequisite: Art 620.

Continues Art 620 with additional emphasis on the coe of markets for the production of full croor comprehensive deasings and illustrations. Introduces the use of computars for illustration.

622 Illustration for the Graphic Artist (3)

Lecture 2 hours, laboratory 2 hours Prerequisites An 621.

Extends basic principles and practices of advertising illustration to problems in graphic design and layour. Projects include the coordination of illustration with photography and other visual media. Computers are used in preparation for camera-ready art and graphics.

700 Introduction to Sculpture (3) UC:CSU

Lecture 2 hour, Laboratory 5 hours,

Provides experiences in designing and executing sculptural form technical experiences include mudeling, casting and fabricating with sculptural media. Historical and cultural astrocedents are discussed with emphasis on developing sculptural awareness.

701 Sculpture I (3) UC:CSU

Lecture I hours, laboratory 5 hours.
Preroquisite: Art 700 with a goade of "C" or besses.

Continues Art 700.

702 Sculpture II (3) UC:CSU

Lecture 1 hour; laboratory 5 hours. Prerequisites Art 703 with "C" or better.

Continuation of Art 701.

703 Sculpture III (3) UC:CSU

Lection I hour; Solosatory 5 hours. Prerequisites Ars 702 with "C" or besser. This course may not be offered each semester. Check your current Schedule of Classes.

Continuation of Art 702.

708 Introduction to Ceramics (3) UC:CSU (CAN ART 6)

Lectury 1 hour, laboratory 5 hours. Recommended: Art 501 or 502.

Presents basic ceramic design and construction rechniques including handbeilding, wheel forming, surface enrichment, glazing, and firing, Emphastics design and craftomanship. Surveys the historical organificance of ceramic air.

709 Ceramics I (3) UC:CSU

Lecture I hour; laboratory 5 hours.

Prerequisite: Art 708 with a grade of "C" or better.

Continuation of Introduction to Ceramics with increasing emphasis on wheel forming, glare formulation, and kiln management. Stresses further the concepts of design.

710 Ceramics II (3) UC:CSU

Lecture I hour, laboratory 5 hours.

Prerequisite: Art 709 with a grade of "C" or better.

Continuation of Art 709 with emphasis on individually planned projects.

711 Ceramics III (3) UC:CSU

Lecture 1 hour; laboratory 5 hours

Prerequisite: Art 710 with a grade of "C" or better.

Continuation of Art 710 with an increased emphasis on individually planned projects.

721 Introduction to Jewelry (3) CSU

Lecture I hour; laboratory 5 hours.

Presents the construction and/or fabrication of jewelry as study of threedimensional design. Introduces varied experiences in working with precious and other metals. Emphasis is on individuality, crafmmanship, and design. Homescal significance of jewelry design and its traditional technique are also trudied.

722 Jewelry I (3) CSU

Lecture 1 hours laboratory 5 hours.

Prerequisites Art 721 with a grade of "C" or better.

Continues the study and construction of jewelry and metal design as well as the history of jewelry as an art form. Emphasis is upon individual awarness, expression, craftsmanship, and experimentation with threedimensional form.

723 Jewelry II (3) CSU

Lecture I hour, laboratory 5 hours.

Prerequirites Art 722 with a grade of 'C' or bestee.

Continues the exploration of various facets of functional and nonfunctional jewelry and metal expression. Provides experience in enameling, repoune, forming, exching, and other methods of surface decoration and metal fabrication.

724 Jewelry III (3) CSU

Lecture 1 hour, debonatory 5 hours.

Prerequisites Art 723 with a grade of "C" or better.

Continues advanced techniques and design concepts relative to jewelry fabrication and form. Encourages the use of new materials with the traditional. Provides further experience in a variety of historical and contribuorary expression of jewelry forms.



185 Directed Study - Art Honors(1) TUC:CSU RPT 2

285 Directed Study - Art Honors(2) †UC:CSU

385 Directed Study - Art Honors(3) †UC-CSU

Conference 1 hour per unit.

Allows students to pursue Directed Study in Art on a contract basis under the direction of a supervising instructor.

911 - 941

Cooperative Work Experience Education - Art

Sor Cooperative Work Experience Education

Astronomy

1 Elementary Astronomy (3) UC:CSU

Lecture 3 hours.

Acronomy 1 with 2 same as Astronomy 3

Surveys the material contents of the universe at an introductory level designed primarily for non-science majors. Emphasizes the physical principles essential in fundamental understanding in autonomy. Discusses the tools of the autonomet, stars and stellar evolution, galaxies and quarars, cosmology, the tolar system, and extra represental life.

Elementary Astronomy Laboratory (1) UC:CSU RPT 1

Laboratory and discussion, 2 hours,

Astronomy Lwith 2 same as Astronomy 3

Prerequisites Astronomy 1.

Supplements the material of Astronomy 1. Includes use of astronomical instruments, motions of the sky, the celestial sphere, star clears, enostellation study, lunar and planetary orbits, spectra of stars, and classification of galaxies. Telescopic observations will be made whenever possible and will include occasional field trips to nearby attronomy facilities.

3 Introductory Astronomy (4) UC:CSU

Lecture 3 hours: laboratory 2 hours. Same at Astronomy 1 with 2

Combines lecture and laboratory content of Astronomy 1 and Astronomy 2. For further information see course descriptions of Astronomy 1 and Astronomy 2.

185 Directed Study - Astronomy (1) TUC:CSU RPT 2

285 Directed Study - Astronomy (2) 1UC:CSU

385 Directed Study - Astronomy (3) TUC:CSU

Conference I have per unit.

Allows students to pursue Directed Study in Astronomy on a contract basis under the direction of a supervising instructor.

Automotive Service Technology

1 Automotive Engines (5) CSU

Lecture 3 hours; laboratory 5 hours.

Presents a study of automotive engines. Encompasses cooling and lubricating systems. Students overhaul engines in the laboratory, including bosing, pin-fitting, valve seat replacement, valve grinding, and other engine rebuilding procedures.

2 Suspension Brakes and Power Systems (5)

Lecture 3 hours, Laboratory 5 hours.

Introduces wheel, brake, and suspension systems and service, including instruction on power brakes, power steering systems, and anti-lock braking systems. Provides training and supervised repair on automobiles under actual shop conditions.

3 Engine Diagnosis and Tune-Up (5)

Leceuse 3 hours; Laboratory 5 hours.

Prerequisites Automotive Service Technology 4 strongly recommended.

Emphasizes automorive engine diagnosis and tune-up problems pertaining to forl, ignition, starting and charging systems. Shop reaining in ignition, emission control, and fuel systems on automobiles.

4 Starting and Charging Systems/ Automotive Electrical Circuits (5)

Lecture 3 hours: Laboratory 5 hours.

Deals with the theory and maintenance of charging and starting systems. Provides a working understanding of the electrical systems used on automotive machinery. Lab work includes repair work on starters, alternance, and trouble shooting components of the electrical system. Includes practice with the latest diagnostic equipment.

5 Standard Transmissions, Clutches, Drive Lines and Differentials (3)

Lecture 2 hours; lehentiery 2 hours.

Examines manual shift type transmission including front drive transasles. Discusses drive line problems including charch, differential, and ade systems. Provides laboratory practice on these assemblies.

6 Automatic Transmissions (5)

Lessure 3 hours; laboratory 5 hours.

Provides lecture and laboratory work in the theory and servicing of several types of automatic transmissions currently in use.

7 Air Conditioning (3)

Lecture 2 hours; Lebenstory 2 hours.

Presents the latest information in air conditioning systems and servicing. Has shop practice in repair and servicing of air conditioning systems.

20 Automotive Electronic Computer Control Systems (3)

Lecture 3 hours

Prerequisites Automotive Service Technology 3 with a guade of "C" or better. The theory, operation, and repair systems of automotive engine computer systems.

21 Computer-Controlled Electronic Fuel Injection Systems (3)

Lecture 3 hours.

Prerequisites Automotive Service Technology 20 with a goale of "C" or better

The theory, operation, and repair of computer controlled electronic fuel injection systems.

23 The Clean Air Car (3)

Lecture 2 hours: laboratory 2 hours.

Prerequiettes Automative Service Technology 3. 4, 20°, and 21° with a grade of C or better.

(Class mosts for a Sease mandated 120 bours when combined with Automotive Service Technology 20 and 21.)

May be taken concurrently with Automative Service Technology 20 and 21. Consucs faculty advour about how to obtain a entry license.

A State of California mandated course covering operation and repair of emission systems. Upon satisfactory completion of the course, students. may obtain a letter for permission to take the state licensing stam.

Fundamentals of Auto Mechanics (4)

Lecture 3 hours: Lebaratory A bours

Provides a comprehensive introduction to the design, operation, and sepair of various automotive systems. Emphasis is placed on owneroperator vehicle maintenance.

32 Automotive Service Technology Projects Laboratory: Chassis and Suspension Systems (1)

Lebenmey 3 hours.

Prerequisites Automotive Service Technology 2.

Provides increased laboratory experience in the diagramis and repair of automotive change and ouspension systems.

Automotive Service Technology Projects Laboratory: Electrical Circuits (2)

Laboratory 6 hours.

Prerequisite: Automotive Service Technology 4.

Provides increased laboratory experience in the diagnosis and repair of automotive electrical circuits.

Automotive Service Technology Projects Laboratory: Standard Transmissions, Clutches, Drive Lines and Differentials/ Air Conditioning (1)

Laboratory 3 bours

Prerequisite: Automotive Service Technology 5.

Provides increased laboratory experience in the diagnosis and repair of seandard transmissions, clurches, drive lines and differentials/air conditioning.

185 Directed Study - Automotive Service Technology (1) RPT 2

285 Directed Study - Automotive Service Technology (2)

385 Directed Study - Automotive Service Technology (3)

Allows students to pursue Disected Study in Automotive Service Technology on a contract basis under the direction of a supervising **instructor**

911-941

Cooperative Work Experience Education -**Automotive Service Technology**

See Cooperative Work Experience Education

Biology

See also Anatomy, Microbiology, Oceanography, and Physiology.

Introduction to Biology (4) *UC:CSU

Lecture 3 hours: laboratory 3 hours

Closed to students who have completed Biology 6.

This course presents a comprehensive study of the major principles of biology. It covers topics such as cell structure and physiologic bioenergetics, development, genetics, hasic ecology, population biology and evolution. This course meets the general education laboratory experience requirement. This course is not intended for life science, biology, or pre-professional (medical, dental) majors.

General Biology I (5) UC:CSU (CAN BIOL SEQ A)

Legure 3 hours: Laboratory 6 hours

Prerequisite: Chemistry 60 or 101.

Note: This class recent off campus several times during the semester.

Biology 6 represents half of a one-year course designed for Life Science majors and those preparing for careers in medicine, pharmacy, and destistry. The lecture focuses on the fundamental processes associated with living organisms, particularly those at the cellular and molecular levels of organization. The laboratory explores the biology of plants. process, and invertebrate animals.

General Biology II (5) UC:CSU (CAN BIOL SEQ A)

Lecture 3 hours, laboratory & boson

Prerequisite: Chemistry 60 or 101

Note: Hadage 6 is not a prerequisite for Biology 7.

Note: This class meets off campus several times during the semester.

Designed to complete the study of the basic principles of biology. Deals with embryology and development of versebrates, structure and physiology of vertebrate organ systems, evolution of vertebrates. Examines populations and their relationships to biological communities.

Natural History I (4) UC:CSU

Lecture 3 hours: laboratory 3 hours.

Notes surveys of the local ecosystems are done during off-comput field trips. Biological principles including evolution, adaptation and scientific methods are examined using the local environment. Includes the role of climate in the distribution of plant and animal species and a systematic survey of the common local plants, invertebrates, birds and mammals.

Natural History II (3) **UC:CSU

Lecture 2 hours: laboratory 2 hours.

Note: This course is raught in 1-unit modules. No credit for repeated modules Deals with the biology of the environment and the interrelationship of climate, animals, planes, and humans. Course will include an in-depth ecological and systematic survey of a few selected ecosystems of the world.

12 Natural History and Field Biology I (3) **UC:CSU

Lecture 2 hours: laboratory 2 hours.

Nate: This course is saught in I-wost modules. No credit for repeated modules. Deals with the biology of the environment and the interrelationship of climate, animals, plants, and humans. Course will include an in-depth ecological and systematic survey of a few selected ecosystems of the world.

18 Natural History and Field Biology II (3) **UC:CSU

Lecture 2 hours; laboratory 2 hours.

Note: This course is assight in I-unit modules. No credit for repeated modules. Deals with the biology of the environment and the interrelationship of climate, animals, plants, and humans. Course will include an in-depth ecological and systematic survey of a few selected ecosystems of the world.



25 Human Biology (3) *UC:CSU

Lecture 3 huors

Examines the biology of Homer supiens including its origin, development and future as Earth. Contemporary concepts such as genetics, body structure and function, growth and development, sustrition, ecology, agong, AIDS and contraception are examined. This course is not intended for Life Science majors.

40 The Science of Biotechnology (3) UC:CSU

Lecture 2 hours; laboratory 2 hours.

Prerequisite Biology 6 and Chemistry 101.

Two-work internesion course.

This course provides a comprehensive introduction to the science of biotechnology by providing both the cheory and hands on experience with laboratory protocols that parallel the isolation, purification, and cloning of a gene.

185 Directed Study - Biology (1) TUC:CSU RPT 2

295 Directed Study - Biology (2) †UC:CSU

385 Directed Study - Biology (3) †UC:CSU

Conference I hour per unit.

Allows students to pursua Directed Study in Biology on a contract basis under the direction of a supervising instruction.

911-941

Cooperative Work Experience Education - Biology 921

See Cooperative Work Experience Education

*UC Credit Limit: Maximum one coune.

"UC Credit Limit: Maximum 3 units needed to transfer.

Business Administration

Business Administration courses are listed separately under the following headings:

Accounting

Business

International Business

Management

Marketing

Real Estate

Supervision

Business

1 Introduction to Business (3) UC:CSU

Lecture 3 hours.

Designed to introduce or review the basic areas of business. This is a survey course. Topics covered include: Accounting, International Business, Finance, Marketing, Management, Business Law, Business Organization, and Careers.

5 Business Law I (3) *UC:CSU (CAN BUS 8)

Lecture 3 hours.

Includes a general overview of law and society and specifically the law of contracts, personal property and bailments, consumer protection, wal property and the environment, estates and wills. Gives attention to logical seasoning and the application of rules of law to everyday business activities.

6 Business Law II (3) *UC:CSU

Letture 3 hours

Includes the study of agency and employ-ment, sales, insurance, partnerships, corporations, commercial paper, banksupecs, and the insertlationship of government and business. Discusses cases stressing the application of the principles of law in the above-named fields in order to apply the rules to everyday business activities.

185 Directed Study - Business (1) CSU RPT 2

285 Directed Study - Business (2) CSU

385 Directed Study - Business (3) CSU

Conference I hour per unit.

Allows students to pursue Directed Study in Business on a contract besis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Business

See Cooperative Wirk Experience Education

*DC Credit Limits Maximum one course.

Business Communications

See course listings under Office Administration

Business Computer Applications

Business Education

See course listings under Office Administration

Business English

See course listings under Office Administration

Cabinetmaking

See course listings under Industrial Technology-Woodworking

Chemistry

Students whose native language is other than English must qualify for or he enrolled in ESL 86 before enrolling in any Chemistry laboratory course. Knowledge of and functional capability in written and spoken English are a determinant not only of a student's ability to profit from instruction offered, but also the safe and successful completion of chemistry laboratory courses.

Fundamentals of Chemistry I (5) **UC:CSU (CAN CHEM 6)

Lecoure 4 hours: leboratory 3 hours. Formerly Chemistry 5

Prerequisites Mathematics 115 or one year of high whool algebra. Recommendation: Eligibility for English 28.

Provides a basic introduction to chemistry for the student with no previous background in chemistry. Emphasizes the principles of inorganic chemistry and provides an introduction as elementary organic chemistry. It is intended for nursing, home economics, physical therapy, elementary education, animal health technology, terminal 2-year agriculture, and liberal arts undritts who need a one semester physical science laboratory course. For many students it is a terminal course in chemistry, but it serves also as the most appropriate presequisite to Chemistry 70. It is not intended for students planning to take Chemistry 101.

Introduction to General Chemistry (5) * UC:CSU

Formerly Chemistry 10.

Lecture 3 hours; laboratory 4 hours.

This class may be offered periodically as an internet-based class with an on-caneput leboratory.

Prerequisites A minimum of I year of high whool algebra or Mathematics 115 with a grade of "C" or better.

Recommendation: Eligibility for English 28.

Presents the elementary principles of general chemistry with special emphasis on problem solving and the development of a basic chemical sociabulary. It is an introductory course for science majors who have not taken high school chemistry or who need a referaher course. This course serves to prepare students for Chemistry 101.

101 General Chemistry I (5) UC:CSU (CAN CHEM 2)

Formerly Chemitary 1

Lecture 3 hours; Laboratory and discussion 6 hours. This class may be offered periodically as an insernet-based class with an on-campus Lebenstory.

Prerequisite:

1. Onemstry 60 or equivalent with a grade of "C" or better.

2. Two years of high school algebra, or completion of Mathematics 125, or in equivalent.

Deals with the principles and laws of chemistry as related to the structure of matter. Topics covered include a comparison of the states of matter; atomic structure and the periodic table; anichiometry; thermochemistry and introductory thermodynamics; chemical bonding; solutions; solubility; acids and bases; introductory chemical equilibrium; oxidationreduction; and phase changes; and an introduction to M.O. theory

CHEMISTRY 101 READINESS TEST

The Chemistry 101 readiness test is necessary for students who wish to enroll in Chemistry 101 as their first course in Chemistry at Pierce College. Results from the test will be used to advise and assist students in enrolling in a class where they are most likely to succeed. The prerequisites for Chemistry 101 are not waived on the basis of any other assessment test scores. Students without the appropriate perroquisites seeking authorization to enroll in Chemistry 101 must meet with the Department Chair. Students who wish to enroll in Chemistry 51 or 60 do not need to take this test. For an appointment and information sheet about the exam contact the Assessment Center. Phone: 719-6499.

102 General Chemistry II (5) UC:CSU (CAN CHEM 4)

Formerly Chemistry 2

Lecture 3 hours: laboratory and discussion 6 hours. This class may be affered periodically as an internet-based class

with an on-campus labora

Prerequisites Chemistry 101 or its equivalent with a grade of "C" or better. A continuation of Chemistry 101. Topics covered include a detailed study of chemical equilibrium as applied to analytical chemistry including solubility, complex ion, and redox equilibria, pH, buffers, weak acids, weak bases, monopeonic and polyprotic systems; thermodynamics, electrochemiury; the solid state; the relationship between structure and properties; kinetics; coordination chemistry and ligand field theory; visible spectroscopy; and the chemistry of selected metals and nonmetals.

211 Organic Chemistry for Science Majors I (5) **UC:CSU

Lecture 3 hours; laboratory 6 hours.

Farmerly Chemistry 14

Prerequisites Chemistry 102 or in equivalent with a grade of "C" or better. Introduces the student to the structure, nomenclature and properties of organic compounds as well as the mechanisms of organic reactions and syntheses. Laboratory deals with the techniques of preparation, isolation, and analysis of organic compounds employing modern instrumental methods.

212 Organic Chemistry for Science Majors II (5) **UC:CSU

Lecture 3 hours: Laboratory 6 hours.

Prerequisites Chemistry 211 or its equivalent with a grade of "C" or better. This course will complete the study begun in Chemistry 211 of the organic functional groups of aldehydes, ketones, carboxylic acids and amines, It will also cover more specialized topics including the following: amino acids and peptides, mass spectrometry, difunctional compounds, polycyclic benzoid hydrocarbons, heterocyclic compounds, the organic chemistry of silicon, NMR techniques and strategies in modern organic synthesis. A mechanistic approach to reactions and a focus on multistep synthesis will be emphasized throughout the course,



221 Biochemistry for Science Majors (5) **UC:CSU

Lecture 3 hours, laboratory 6 hours. Formirly Chemistry 15

Prerequisites Chemistry 211 or in equivalent with a goade of "C" or better. Normally offered in the Spring semester only

This course is intended as a preparation for careers in the physical and busingical sciences, medical and densal perfections, veterinary and agricultural science, matrixion and food chemistry, and erlared fields. In objective in twofold. The first is to complete the study began in Chemistry 211 of the organic functional groups of aldehydes, ketones, enotars, carbonylic acids and their derivatives, and amines and their derivatives. The second is to provide a thorough introduction to the principles, concepts and terminology of biochemistry, with an organism on amino acids, proteins, enzymes and intermediary metabolism. Laboratory deals with introductory biochemical techniques including spectroscopy, dipeptide analysis, protein purification, enzyme analysis and various types of chemistography.

185 Directed Study - Chemistry (1) TUC:CSU RPT 2

285 Directed Study - Chemistry (2) †UC:CSU

385 Directed Study - Chemistry (3) †UC:CSU

Conference I hour per unit.

Allows students to pursue Directed Study in Chemistry on a contract basis under the direction of a supervising sustructure.

911-941

Cooperative Work Experience Education - Chemistry

See Cooperative Work Experience Education

*UC Credit Limits Maximum one course.

"UC Credit Limity Maximum two courses.

8 No credit of taken after Chemistry 101.

Child Development

Child Growth and Development (3) UC:CSU

Lecture 5 hours.

(Credit not given for both Child Development I and Psychology 11). Notes Concurrent enrollment in Psychology 81 is enrounaged.

This course studies human development from conception through pregnancy, infancy, childhood and adolescence. Particular emphasis is placed on the process and theories through which a human being traches physical, social, psychological and mental manurity.

Early Childhood: Principles and Practices (3) CSU

Lecture & boun.

Note: Concurrent enrellment in Psychology 81 is encounaged.

A survey of Early Childhood Programs including philosophies and components of a quality program. Developmentally appropriate practices will be discussed in depth. The role of the seacher will be emphasized in relation to attitudes, goals, values and the total development of the child.

3 Creative Experiences for Children I (3) CSU

Learner & hour

Note: Concurrent invallment in Psychology 81 is encouraged.

In this class, the student will develop and implement a creative curriculum for young children in the areas of dramatic play, music/novement, blocks and urt. Emphasis will be on environments that enhance creativity and diversity.

4 Creative Experiences for Young Children II (3) CSU

Development, implementation and evaluation of appropriate cuericulum in the areas of language arts, natural and physical sciences, math, perceptual-motor development and the social sciences. Lecture, demonstration and participation will emphasize creating a supportive, environmental classroom designed for young children.

10 Child Health (3) CSU

Lecture A hours.

This course includes information on the nutritional needs and physical and mental well-being of children from birth to adolescence. Topics covered include: Childhood communicable diseases, accident prevention, children with special needs and creating safe environments.

11 Home, School and Community Relations (3) CSU

A comprehensive study of the primary socialising agents in a young child's life. It will take an in-depth look at the family and it's interrelationships with the child, school, peep and community. All agencies will be studied within a multi-cultural context.

22 Practicum In Child Development I (4)

Prerequisites: Child Development 1, 2, 3, 4.

The first semester of practicum tracking experience in an early childhood school setting under the supervision of a matter tracker and college instructor/coordinates. This course provides the practical application of studies covered in the prerequisite courses.

23 Practicum In Child Development II (4)

Prerequisite: Child Development 22.

The second sementer of practicum traching experience in an early childhood school setting under the supervision of a master teacher and college instructor/coordinatos. This course provides the practical application of studies covered in prerequisite courses.

30 Infant Studies (3)

A curvey of infant/toddler development and educational programs currently available. Provides an overview of major theories, principles of care giving, environmental design and observation opportunities. Satisfies Title 22 requirements for Infant Child Care Teachers.

38 Adminstration and Supervision of Early Childhood Programs I (3) CSU

Lecture 3 boun

This course examines administrative principles and practices for early childhood programs. Topics covered include: licensing regulations, leadership skills, budget preparation and analysis, personnel management, parent involvement programs and community resources. Professionalisms and quality mandards are emphasized. Partially fulfills licensing requirements for the position of disactor.

39 Administration and Supervision of Early Childhood Programs II (3)

Prerequisites Child Development 38.

This course will contain an in-depth study of the administration of an Early Childhood program. It will include updating of licensing regulations, budget preparation and analysis, staff triations, professional development, parent involvement and conferencing, working with governing boards and supervising agencies, an introduction to proposal and grant writing, and current research in the field.

42 The Child in a Multi-Cultural Society (3)

The philosophy and principles of relating to children with varied cultural backgrounds, including the implications and applications in teaching of young children. Includes curriculum planning.

46 School-age Programs (3)

A study of school-age children. Designed for those working in or planning to work in before and after-school programs. Will help students develop a curriculum with appropriate activities to meet the needs of school-age children, support the family and make use of community resources. A study in methods and principles of supervising reachers and student trachers in early childhood classrooms. Emphasis is on the role of experienced early childhood educators who function as mentors to trachers while addressing needs of children, parents and other staff.

81 Fieldwork in Child Development I (3)

Prerequisites: Child Development 1, 2, 3, 4.

The first semester of supervised work experience and seminar for currently employed directors, seachers, assistant trachers and aides in the schools. This course will substitute for Child Development 22 for certificates or Associate of Arts Degree. Limited to students employed in schools 20 leasurs a week.

82 Fieldwork in Child Development II (3)

Prerequieite: Child Development 81,

The record semester of supervised work experience and seminar for currently employed directors, trachers, attituant trachers and aides in schools. Beforement of teaching practices and practical application of mulies covered in previous courses.

Cinema

3 History of Motion Pictures and Television (3) UC:CSU

Lecture 2 hours: behonstery 2 hours. May be offered as an hours section.

Examines relevision and film as communicative art forms. Analyses appresentative films and television programs as to firmum, aesthetics, societal impacs, and evolution as essentialment media.

18 Main Currents in Motion Pictures (3) UC:CSU

Presents a survey of fearure film trends since World War II, uniting a thomatic approach which analyses motion pictures as they reflect changing social values. Representative films are shown.

Computer Office Applications

See course listings under Office Administration

Computer Science And Information Technology

501 Introduction to Computers and Their Uses (3) UC:CSU

An introduction to the uses, concepts, techniques, and terminology of computing. Places the possibilities and problems of computer use in historical, economic, and social contexts. Shows how computers can assist in a wide tange of personal, commercial, and organizational activities. Provides familiarization with typical computer applications, which include word processor, spreadsheets, databases and Internet access. Included is the historical development of the internet and its methods and procedures.

506 Introduction to Programming (3) *UC:CSU (CAN CSCI 12)

Lecture 2 hours: laboratory 2 hours.

Prerequisites: Mathematics 115 or 119 or one year of high school algebra and Computer Science 507 with a grade of "C" or better. Computer Science 507 may be taken conservently.

Introduction to computers and computer programming. Program structure, design, testing, and dibrigging are explored in a hands-on environment. Topics included are selection, repetition, data types, arrays, functions, procedures and file I/O using a high level programming language.

507 Programming Logic (3) UC:CSU

Lecture 3 bower

Prerequisites Mathematics 115 or 119 or one year of high school algebra with a grade of "C" or better.

Recommended: Concurrent enrollment in Computer Science 506,

This course introduces the concepts necessary to successfully design, test and document computer programs using top-down, structured programming techniques. Topics included are: data types, data structures, control structures, algorithm and subalgorithm structures and parameter passing methods, and file interactive input/output. This class is intended as a machine and language independent first course in computer science logic. It is required of all computer science majors and desirable for all students wishing so study programming. A high level language such as PASCAL should be taken concurrency.

508 Visual BASIC (3) *UC:CSU (CAN CSCI 6)

Lecture 2 hours: laboratory 2 hours.

Prerequisites Computer Science (507 or 575) and 530 unit grades of "C" or besses

Introduces the programming language Visual BASIC as the laset language to learn beginning to advanced structured programming concepts and techniques. Scudents are presented explicit interaction in structured programming principles, top-down design and modular programming methods, program debugging, seeing, implementation and documentation procedures. Topics include data types, array and string structures, decision and repetition control structures, sequential and random file processing operations. Appropriate applications will be supplied to students as examples and exercises.

515 Beginning COBOL Programming (3) *UC:CSU

Lecture 2 hours: laboratory 2 hours.

Prerequisite: Computer Science 501 and 507 and one programming class from Computer Science 506, 508, 513, 516; with a grade of "C" or better. Presents COBOL (Common Business Oriented Language), a language which facilitates the programming of business applications on computers. Students will learn to program in structured COBOL Includes tables, sub-programs, and sequential and indexed file handling sechniques.



516 Beginning Computer Architecture and Organization (3) *UC-CSU

Lecture 2 hours: Laboratory 2 hours.

Prorequisites (Computer Science 507 and one programming class from Computer Science 506 or 513, with a grade of "C" or better), or CoSci 575.

Computer architecture. Information representation and storage organization in computer systems. Computer hardware components Typical computer architectures: Instruction formats, addressing modes, subprograms, parameter passing, stacks, and the interaction execution cycle. Assembly language instruction formats. Compiler translation to assembly language. Optimizing compilers. Dissassemblers. Loaders and simulators. System interrupes. Memory allocation process with vintual memory. Boolean algebra and logic gates. Combinational logic and sequential devices.

530 Microcomputer Application Software (3) CSU

Lecture 2 hours: Laboratory 2 hours.

A survey of business application software packages including operating systems, word processing, spreadshorts, and database management. Examples include common business applications. Current sofeware includes Windows, Ward, Excel, and Access.

532 Advanced Data Structures and Introduction to Databases (3) CSU

Prerequisite: Computer Science 536 with a goade of "C" or better.

The organization of large files and databases is discussed. File structures are reviewed and analyzed. Sequential file updating, sorting and merging are horigues are reviewed. Direct file processing using hashing methods are discussed. Indexed file processing with static and dynamic indexes are explored and midrilary implementations are reviewed. The normalization process is defined.

533 Advanced Microcomputer Applications (3) CSU

Lecture 2 hours: Submittery 2 hour

Prerequisites Computer Science 550 with a grade of "C" or better. Advanced course in Windows, Word, Excel, Access and Powerpoint. Includes uses of the Internet in all products, OLE, Macon and other advanced features.

534 Operating Systems (3)*UC:CSU

ecture 2 hours; Lehonatory 2 hour

Prerequisites Computer Science 572 with a guade of "C" or better.

The primary issues surmunding UNIX system administration are the focus of this course. An introduction to operating system concepts, structure, functions, performance and management is presented using the UNIX operating system. Review of computer hardware, software and opstrating system principles are also presented. The structure and command language inverfaces are identified and discussed. Process control and management, scheduling methods, and interprocess communication techniques are studied. Memory management requirements and strategies are reviewed and allocation/scheduling algorithms are examined. System reliability, security, management and performance analysis are examined. Aspects of UNIX networking are also discussed.

535 Job Control Language and File Systems (3) CSU

Lecture 2 hours: laboratory 2 hours

Prerequisite: Computer Science 513 or 515, either of which may be seken

The concepts and usage of data storage systems, data representations, and methods of organizing, accessing, sorting and searching data are introduced and discussed. File systems architecture, organisation operations and processing are reviewed. Applications of these systems are highlighted and discussed. The operating systems activities that support file systems are reviewed. Language translator software is identified and caplored. The use of job control languages for operating systems communication and program utilities for file operations are discussed and unfined through lab anignments.

536 Introduction to Data Structures (3) *UC:CSU

Lectury 2 hours: laboratory 2 hours. Computer Science 539

Introduction to data structures and their applications. The role of the abstract data type in programming design. The definition. implementation, and application of data structures: stacks, queues, linked lists, trees and graphs. Recursion. A comparative study of sorting and searching algorithms. Evaluation of algorithms using time complexity expressions.

539 Programming in C (3) *UC:CSU (CAN CSCI 16)

Lecture 2 hours, laboratory 2 hours

Computer Science 513 or 515 or 506 or 508: AND Computer Science 507 which may be taken concurrently with Computer Science 539, or CoSci 575.

This is a course in the programming language C. It covers data types. operators and expressions, control flow, functions and program structure, pointers and arrays, structures, I/O, and an introduction to procedural C++. Examples illustrate programming techniques, algorithms, and the use of library routines.

540 Object Oriented Programming in C++ (3) UC:CSU

Lecture 2 hours: Inhantary 2 hours

Prerequisites Computer Science 539 with a geade of "C" or better.

Object-oriented programming methodology such as escapsulation, message passing, data hiding, inheritance and poly-morphism are introduced. C++ features include clames, communerors, destructors, friends, derived classes, virtual functions and operator overloading are studied and implemented with lab projects.

541 Advanced Database Programming For Windows (3) CSU

Lecture 2 hours: laboratory 2 hours

Suggested: Computer Science 530 and Computer Science 506 or 507. Advanced programming on microcomputers for database applications in a Windows environment. Includes input/output for reports and screens, menus and dialog boxes, OLF, and building complete applications. Also covers SQL, ODBC, and Visual Basic macros.

545 Advanced COBOL Programming (3) *UC:CSU

Lecture 2 hours; laboratory 2 hours,

Prerequisite: Computer Science 515 with a grade of "C" or better.

Presents a second enurse in COBOL programming concepts and file handling techniques. Includes tables, string handling, SORT and ISAM/VSAM files. Includes hands-on programming in an interactive environment

546 Advanced Computer Architecture and Organization (3) *UC:CSU

Lecture 2 Journ: Lebenstory 2 hours

Prerequisites Computer Science 516 and 536 bath with a grade of "C" or

Introduction to the concept of multilevel machines. Several computer architectures are compared and evaluated. The digital logic level is discussed, system but and memory organizations are reviewed.

Microarchitecture chips and busses are evaluated. Microarchitecture chips and busses are evaluated. Microarchitecture and microprograms are analyzed. Convenzional instructions for processor families are identified. Instruction formats and addressing modes are examined in depth. CISC, RISC and parallel processing architectures are discussed. The assembly language process, macro facility, linking/loading. and simulated execution is performed as a lab exercise.

551 Introduction to the Internet and the World Wide Web (1) CSU

A hands-on survey of the Internet, E-mail, information retrieval, interest groups, the World Wide Web, boowing the Web, introduction to Web publishing and the Hyper Test Markup Language (HTML).

552 Programming in Java (3) CSU

Prerequisites Computer Science 506, 507 and 551 with grades of "C" or

This course is an instuduction to the Java programming language and principles of object-oriented design and programming using Java. Topics include Java language fundamentals, Applet programming for Web pages, building graphical user interfaces with multimedia components in Applers, and developing standalone application programs.

570 Fundamentals of Digital Computer Design (3)

Lecrose 2 hours: laboratory 3 hours.

Prerequisites One year of high school algebra or Mathematics 115 with a grade of L. or better.

Provides the foundation in the design of the electronic elements which are the basis of digital computers. DC and AC circuits; resistors, capacitors, diodes, transituef, basic amplifiers. Digital logic; gates, Boolean algebra, combinational circuits. Karnaugh maps, sequential logic, flip-flops, segisters, counters, memories. The course stresses hands-on experiments and the one of test instrumentation.

572 Introduction to Personal Computer Hardware and Operating Systems(3) CSU

Lecture 2 hours: Lebenstery 2 boun.

Institutions students to computer hardware, PC operating system, and network basics. A current operating system is studied in depth throughout the tennester. Hardware topics range from floppy disks and drives, hard disks and controller cards, memory and memory management, expansion cards and homes (ISA, EISA, Micro-channel, Local Bus, PCI), input and susput devices, and network banbware and software. Laboratory experiences include in depth operating system esercises, system configuration and documentation, particioning and creating logical drives on the hard disk, and examining disk processes using a utility program (nuch as Norton Utilities).

575 Programming for Technical Applications (4) CSU

Lecture 3 hours; Laboratory 2 hours

The fundamentals of programming for personnel involved in the design and maintenance of computer hardware. A High Order Language, such as BASIC is used to develop a variety of applications including technical and diagnostic programs. All aspects of the software development cycle (design, code, test, and debugging), as well as good programming practices such as sup-down and modular design are stressed.

576 Local Area Network Management (3) CSU

Lecense 2 hours: laboratory 2 hour

Prerequisite: Computer Science 572.

This sourse provides the knowledge and skills required for network. administration and system management. Topics include: planning, accessing and managing nerwork file systems; system data and file security, server concepts, management and support; server maintenance and performance management.

578 Microcomputer Logic Design and Programming (3) CSU

Lecture 2 hours: laboratory 2 hours

Prerequisite: Computer Science 570 and 575 with a goale of "C" or better. This course covers in depth the architecture and programming of 8- and 16-bit microprocessors using assembly and machine languages. Cosmol, ilius, and address basses are examined. Hands-no experiments include interfacing microprocesures to both digital and analog devices.

579 Wide Area Network Management (3) CSU

Lecture 2 hours: Liberatory 2 hour

Prerequiative Computer Science 572.

This course provides the knowledge and skills required in the global connectivity of networks. Topics include: managing the network directory services; nerwork file and dark security; user automation; nerwork unfitting: network maintenance and performance optimization.

581 Microcomputer Upgrade and Repair (4) CSU

Lecture 2 hours: Laboratory of Irran.

Prerequisites Computer Science 572 with a goale of "C" or better.

The objective of this course is so teach the maintenance and repair of microcomputer systems to the level required of a one-year certificate graduate. Topics will include software and hardware installation. maintenance and repair of floppy daks, printers, memory expanders, graphic reminals and network functional blocks and their various adaptors. Manuals and diagnostic software are used for numerous service calls of increasing complexity involving electronics and mechanical failurer and adjustments

586 Computer Network Service and Support(4) CSU

Lecture 2 hours: laboratory 4 hours.

Prerequisites Computer Science 576 or 579, and 581 with a grade of "C"

A hands-on course intended in prepare students to service and support computers, perspherals and network systems. All aspects of equipment (both hardware and sofeware) are introduced. Tasks include installations, approdes and mouble-theorety of storage devices, application and system infrusire, network hardware, microcomputer devices, printers and communication devices and software.

587 Introduction to Computer Networks (3) CSU

Lecture 2 hours; laboratory 2 hours

Prerequisites Computer Science 572.

Nerwork terminology, topology, protocols, standards and concepts are discussed. Local and wide area networks are analyzed. Lab activities are concerned with an examination of existing LAN/WAN hardware and software, interner browsers, and the use of HTML to develop a Web page.

588 Computer Projects (2) CSU

Lecture 1 hour; laboratory 3 hours.

Prerequialter Computer Science 577 and 578 with a goode of "C" or better,

Requires the student, after consultation with the instructor, to design, build, evaluate and document a project involving digital electronics. Professional approaches toward funding a real project as either an employee or contractor are dis-cussed along with cost estimating. scheduling and documenting.

589 Introduction to Data Communications (3) CSU

Lecture 2 hours; Inhonstory 2 hours

Prerequisites Computer Science 572 with a grade of "C" or house. Studies the different techniques used to achieve the transfer of data herween two devices. The course covers interface protocols, error detectors and correction and the OSI international standard protocols.

185 Directed Study - Computer Science Information Technology (1) UC:CSU RPT 2

285 Directed Study - Computer Science Information Technology (2)

385 Directed Study - Computer Science Information Technology (3) UC:CSU

Conference I hour per unit.

Allows students to pursue Directed Study in Computer Science on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education -Computer Science Information Technology

See Cooperative Work Experience Education *UC Credit Limit: Maximum six courses.



Cooperative Work Experience Education

The following courses provide Cooperative Work Experience Education credit. See Cooperative Work Experience Education in the Educational Programs section of this catalog.

Cooperative Work Experience Education -Occupational

Cooperative Work Experience Education is offered in the subjects listed below, repositable three semiciers.

Agriculture Architecture

An

Automotive Service Technology

Biology Business

Chemintry

Computer Science Economics

Electronics

English

Health Industrial Technology-General Journalism Music

Nuning

Office Administration

Photography

Physical Education

Physics Political Science Psychology Recreation Sociology

Speech Communication

Theater

Prerequisites: Employment in a field related in the student's major as verified by the organization of the Cooperation Wink Experience Education Advisor.

Limits to transfer credits See Cooperative Work Experience Education Credit Guide

Supervised training is conducted in the form of un-the-job training in an employment area that will anhance the student's education goals.

Cooperative Work Experience Education -General

195 Work Experience - General I (1) RPT 1

295 Work Experience - General I (2) RPT 1

395 Work Experience - General I (3) RPT 1

Supervised training is provided in the area of gareral employment practices with emphasis on attitude, ethics, and integrity. On-the-job training need not be in the college major but must be educational.

Desktop Publishing

See course listings under Office Administration

Drafting - Mechanical

See Industrial Technology - Drafting- Mechanical

Earth Science

Earth Science courses are listed under the headings of:

Anthropology
Environmental Science
Geography
Geology
Linguistics
Meteorology
Oceanography

Economics

1 Principles of Economics I (3) UC:CSU (CAN ECON 4)

Lecture 3 hours.

May be offered as an bonus section.

Economics I, Microsconómica, emphasius price theory, consumer behavior, production corrs, theory of the firm, market structures, and distribution of income. Other topics may include international made, externalisies, economic policy, and history of economic thought.

2 Principles of Economics II (3) UC:CSU (CAN ECON 2) I cover 3 four.

May be offered as an honors section.

Economics 2, Macroeconomics, emphasizes aggregative economic analysis, including national income determination, inflation, unemployment, investment, fiscal policy, money and lianking, and monetary policy. Other topics may include economic growth and development, and urban problems.

10 Economic History of the United States (3) UC:CSU Lecture 3 Innur.

Same at History 15. Credit not given for both rouries.

Services development and change in economic institutions. Considers the nature of American capitalism and the effects of industrialization on American economic life.

185 Directed Study - Economics (1) TUC:CSU RPT 2

285 Directed Study - Economics (2) †UC:CSU

385 Directed Study - Economics (3) †UC:CSU

Conference 1 hour per unit.

Allows students to pursue Directed Study in Economics on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Economics

See Cooperative Work Experience Education

Education

Introduction to Teaching (3) CSU

Lecture 3 hours

This is a pre-professional course intended for students considering a traching career. Presents the issues and problems involved at all levels of American education. Includes outh areas as the historical, social, philosophical and psychological foundations and organization of education, and examines the contributions of teachers to the profession. to students, and to the cummunity.

Methods and Materials of Tutoring (1)

Lecrone 2 hours

A counc offering instruction in tutoring techniques, group dynamics, interpersonal skills, record-keeping, organizational skills, and study skills. The course explines concepts of cultural differences and values, body language, gesture, and spoken language,

911-941

Cooperative Work Experience Education -Education

See Cooperative Work Experience Education

Electrical Construction And Maintenance

See Industrial Technology -**Electrical Construction and Maintenance**

Electronics

Introduction to Electronics (3) CSU

Presents an overview of electronics and provides a general consumer penderstanding for the non-technical student. Emphasis is on the relationship of this field to other scientific fields, industry, business, the home, and other users. The course will include lectures, demonstrations, films. This course is designed for students not majoring in Electronics.

4A Fundamentals of Electronics IA (3) CSU

Lecture 3 hours

Corequisites Electronics 4B.

Designed for beginning electronics students without any previous experience with electricity or electronics. Covers the fundamentals of atomic theory, basics of volt, OHM, ampere, energy and peners, OHM's Law, series-parallel circuits, voltage and current dividen. Network theorems including Theorem's, Norma's superposition, mesh loops, maximum power transfer, and applications of Kirchhoff's laws. Conversion of voltage and current sources, conductors, resistors, harreries, magnetism, electromagnetic induction, transient functions, D.C. measuring incruments. D.C. characteristics of capacitors and inductors. Computer aided schematic entry and circuit analysis using PSPICE.

4B Fundamentals of Electronics IB (1) CSU

Laboratory 3 hours.

Corequisites Electronics 4A.

Constuction of basic DC circuits for the study of OHM's Law, series and parallel, network theorems including superposition, meth, Thevenin's and Neston's. Wiring practice from schematic and pictorial. Use of laboratory instrumens including analog and digital multimeters and power supplies. Measurement techniques and loading effects. Meter design. Computer aided schematic entry and circuit analysis ining PSPICE.

6A Fundamentals of Electronics IIA (3) CSU

Lecture 3 knue

Prerequisites Electronics 4A and 4B. Electronics 10 and concurrent enrollment in Electronics 68.

Studies in detail alternating current theory and applications. Stresses the topics of seacrance, impedance, resonance, trunsformers, coupling filters, and bandpass. Emphasizes the solution of abernating current circuit problems. Computer aided circuit analysis using PSPICE.

68 Fundamentals of Electronics IIB (1) CSU

Laboratory I hours

Correquisites Electronics 6A.

Coven peactical application of theories presented in Electronics 6A through laboratory experimentation. Computer aided circuit analysis ming PSPICE.

BA Electron Devices A (3) CSU

Levenine & Jones

Prerequisites Electronics 4A and 4B.

Presents principles of operation of semi-conductor, diodes, bipolar transismes, field effect transismes, MOSFETS, and special purpose electron devices, such as SCRs, tunnel diodes, light emitting diodes, phons-transistors. DIACs, TRIACs, Zener diodes, UJTs, vacuum rubes, cathode ray rubes. Analysis of characteristic curves for semiconductor devices. Bissing and load lines, Introduction to common emitter, common collector and common base transistor configurations. Sample applications of semiconductor devices. Computer aided circuit analysis using PSPICE

8B Electron Devices B (1) CSU

Laboratory 3 hours.

Prerequisites Electronics 8A or concurrent enrollment in Electronics 8A.

Provides laboratory experience in the use of electron devices and associated test equipment including multimeters, oscilloscopes, generators and the transistor curve tracer. Lab work includes constructing, testing, analyzing, and troubleshooting a variety of semiconductor circuits. Circuit construction and experiocentation is supplemented by computer aided circuit analysis.

10 Mathematics of Electronics I (3) CSU

Lecture 3 hours

Presents principles of basic algebra, equations, factoring, fractional sequations, assurings to systems of equations, basic logarithms, power of ten, and basic usurs of electronics. Emphasis on solutions of problems as applied to electronics. Requires an electronic calculator.

12 Mathematics of Electronics II (3) CSU

Presents principles of trigonometry, vectors, logarithms, theory of steady stars alternating corrent circuits. Emphasis on solutions of electronica problems. Requires an electronic calculance.



26 Linear Circuits (3) CSU

Lecture 3 hours.

Prerequisites Electronics 8 and concurrent enrollment in Electronics 27 or 63.

Covers power supplies. AC and DC amplifiers, push-pull amplifiers, complementary symmetry, phase inverters and phase opinions. Analysis of distortion in amplifiers. Covers A. B. and C amplifiers and oscillatees, multistage and large signal amplifiers, fordback, imput and output impedance and frequency response. Computer aided circuit analysis.

28 Electronic and Electro-Mechanical Drafting I (2) CSU

Lecture I hour; Laboratory 2 hours.

Introduction to Computer Aided Drafting as applied to Electronics.

Using CAD programs to draw schematic symbols and diagrams, flow charty and diagrams, block diagrams, highway and logic diagrams. Printed circuit board design and layout. Introduction to assembly and panel drawings. Schematic capture using PSICE. Introduction to printed circuit board auto-routing design programs.

44 Communications Electronics (3)

Lecture 3 hours

Prerequisites Electronics 6 and 8.

Provides a study of AM, FM and SSB transmitters and receivers. Crystal, ceramic and LC filtering. Oscillators, modulators, motors, discriminators, and RF amplifiers. Frequency multipliers, limiters, and amenias. Audio and squelch circuits. Introduction to sideo systems. Implementation of phase locked loops in therefore, frequency synthesiners and FSK receivers, senseture, and integrated devices in RF circuitry. Introduction to digital communications moderns, FSK, and frequency domain analysis.

Discussion of the requirements for obtaining a Radio Telephone Operator License.

Communications Electronics Laboratory (1)

Laboratory 3 beam.

Corequisites Electronics 44.

Provides laboratory experience for Electronics 44.

Integrated Circuits (4) CSU

Lecture 3 hours: laboratory 3 hours

Prerequisites Electronics 26, 27, and 63.

Govers theory and interface of linear and linear/digital interface integrated circuits. DC basic circuits, input/output resistance, drift, input offset/bias current, models, CMRR, open and closed loop gains and frequency response are covered. Application to differential, operational and video amplifiers. Covers voltage regulators, MOS interface, peripheral drives/international circuits, and phase lock loop circuits. Computer aided circuit analysis.

60 Microwave Fundamentals (3)

Lectury 5 Bears

Prerequisites Electronics 6 and 8.

Includes discussions of microwaye applications and frequency bands. Trans-mission line principles and characteristics. Use of Smith chart in solving transmission line problems. Matching load to transmission line, VSWR and reflection coefficients, study and tuners. Microwave generators and amplifiers including gunn, klystron, travelling wave tubes, and magnetrons. Microwave compositions wave guides and operating modes, sloved lines, directional couplers, and power sensors.

61 Microwave Fundamentals Laboratory (1)

Laboratory 3 hours.

Prerequisites Electronics 60 or concurrent enrollment.

Provides practical experience using modern measuring intruments including VSWR and power meters, spectrum analyzers, swept frequency systems and plotters. Eaperiments demonstrate electro-magnesis wave—theory and measurement techniques so determine VSWR, seffection constitutes, load impedance, power, frequency and attenuation. Use of time domain reflectorisetry in analyzing transmission line faults.

G Circuit Analysis Laboratory (1)

Laboratory 3 hours

Corequisites Electronics 26.

Provides laboratory experience with power supplies, AC and DC amplifiers, push pull amplifiers, complementary symmetry. Class A, B, and C amplifiers and cascaded amplifiers are constructed and tested. Compriscions reclassopes and trouble-shooting methods. Computer aided circuit analysis.

72A Digital Circuits IA (3) CSU

Lecture 3 hours.

Prerequisites Electronics 6 and 8. Corequisite: Electronics 72B.

Presents principles of digital electronics and computer technology. Provides coverage of digital number systems, boolean algebra and atmplification rechniques including Karnaugh maps. Logic gates and the design of logic systems including address and subtractions, encoders and decaders, code converters, comparators, multipleaens, drivers and displays, decade counting units, gate arrays and programmable logic devices are presented. The operation of multivibeatues, and their applications in counters, registers, tresers, and clock generators are discussed. RAM, ROM, EPROM, EPROM, and other memories and memory organization are multied. There stare devices and introduction to buse organization, introduction to synchronous sequential design and computer aided circuit design.

728 Digital Circuits Laboratory IB (1) CSU

Laboratory 3 loun.

Corequisites Electronics 72A.

Provides practice in breadboarding and troubleshooting digital circuits using TTL integrated circuits. The circuits that are commuted and tested include logic gates, flip-flops, memories, consisten, registers, and digital displays. Emphasis is placed on using manufacturers data sheres.

74A Digital Circuits IIA (3) CSU

Lecture 3 hours

Prerequisites Florennics 72A and B.

Corequisites Electronics 7416.

A comprehensive study of a representative microprocessor, with an emphasio on the internal architecture, instruction set, and support chips. The fundamentals of micro and macro programming are covered, Input and output control and interfacing with a study of hardware and machine language programming techniques. Many programming examples and control applications are discussed. A/D and D/A conversion, memory address decoding, bust organization, and timing are also covered.

74B Digital Circuits Laboratory IIB (1) CSU

Laboratory 3 hours.

Corequisites Electronics 74A.

Machine and ascerobly language programming techniques are studied using a representative microprocessor. Data manipulation and arithmetic operations, timing, keyboard and display control, input and output poet control, and hardware interfacing are performed in the laboratory. Analog to digital and digital to analog convextion and other instrument interfacing techniques are attempted.

81 Projects Laboratory (1) RPT 3

Labourary 3 hours

Requires the student, after consultation with the instructor, to assemble, and determine the characteristics of a project involving electronic systems. Includes such typical projects as hi-fi amplifiers, ham transmitters, FM runers, sert equipment, and communications equipment. Requires the student to write a report covering the characteristics, theory, repair, and operation of the project and do all research without direct supervision. All materials are supplied by the student.

185 Directed Study - Electronics (1) RPT 2

285 Directed Study - Electronics (2)

385 Directed Study - Electronics (3)

Conference I hour per unia.

Allows students to pursur Directed Study in Electronics on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Electronics

See Cooperation Wirek Experience Education

Engineering -Mechanical

110 Engineering Computer-Assisted Drafting I (3) CSU

Locator I bour, Laboratory 5 hours

Some as I.T. 110. Credit was given for both courses

A foundational course in the theory and practice of engineering computer-assisted drafting. Topics include sechnical sketching, hardware devices, software utilization, orthographic projection, single and multiple views, and basic dimensioning standards.

115 Engineering Computer-Assisted Drafting II (3) CSU

Lecture I bour, Laboratory 5 hours

Same as 2.T. 115. Credit not given for both courses

An elementary course in the theory and practice of engineering computeranimal deafting. Units include pictorial sketching, computer equipment, software manipulation, isomersic projection, oblique projection, and pictorial dimensioning conventions.

205 Engineering Descriptive Geometry (3) CSU

Lecture 2 hour; Laboratory 2 hours

Same at I.T. 205. Credit not given for both courses

Provides training in the analysis and solution of orthographic projection problems through application of the fundamental principles of discriptive geometry. Emphasis is placed on expusure to and interpretation of points, lines, and planes, in primary, secondary, and successive auxiliary views. Theory and practice are included that involve visualization and graphic representation of intersections, angles, parallelism, perpendicularity, and revolutions.

210 Engineering Computer-Assisted Drafting III (3) CSU

Lecture I bour; Laboratory 5 hours

Same as I.T. 210. Credit not given for book courses

An immoducusey cause in the principles and practices of engineering computer-animed drafting. Areas covered include basic sectional views, coming planes, section lining, basic auxiliary views, angle desermination, and transfer distances.

215 Engineering Computer-Assisted Drafting IV (3) CSU

Lecture I how; Laboratory 5 hours

Same as I.T. 215. Credit not given for both courses

A bioic course in the concepts and skills of engineering computer assisted drafting. Units include detail drawings, dimensional solerancing, feature specification, assembly drawings, parts list generation, and screw thread calloun.

English

The results of the English Placement Test must be on file at the Assessment Center in order to enroll in English 20, 21, 28 or 101, English 81, 82, or 84-87.

All students planning to entall in an English course for the first time are required to take the English Placement Test at the Pierce College Assessment Center. Centert the Assessment Center at (818) 719-6499 for an appointment and sample test information. Placement results or prerequisite courses taken at other colleges may be presented to the Assessment Center to be substituted for the Pierce English Placement test.

Placement on the English Placement Test is intended to assist students enrolling in classes where they are most likely to succeed. Upon complexing the test, students are informed of their placement and given their authorization to extell.

English Writing Laboratory

Open to any regularly enrolled student in Pierce College.

20 College Reading Skills (6) (NDA)

Lecture & hours.

Prerequisite: Appropriate score on Assessment examination.
Offered in 3-wast module.

Provides modern with entry level opportunities to improve reading comprehension, critical thinking, vocabulary, and related skills necessary for success in college classes.

21 English Fundamentals (3) (NDA)

Lecture 3 hours

Prerequisites English 20 or English 87 with a grade of "C" or beines, or a satisfactory score on the English Placement Test.

Emphasius improvement of writing, particularly sensences and paragraphs, and supplements and reinforces basic communication skills including punctuation, spelling and sensence structure. Develops ability to read analytically and think logically.

22 Technical English (3)

Lecture 5 hours.

Prerequisites Eligibility for English 21 or higher.

Includes training for students in the technical and industrial fields in writing, reading, listening, and speaking, with emphasis on the writing of technical reports, directives, memoranda, specifications. Includes preparation and presentation of ocal reports and preparation of an occupational resume.

23 Advanced Vocabulary (3) (NDA)

Lecture 5 bours.

Teaches techniques of enlarging and enriching the individual's vocabulary. Includes a study of the history of language and a survey of the varied clements, including those of Greek and Latin, which make up she English language. Includes the study of sequentics.

28 Intermediate Reading and Composition (3)

Satisfies reading and composition competency requirements for AA degree.

Lecture 3 hours.

Preroquisites English 21 with a grade of "C" or hetter, or a satisfactory work on the English Placement Test.

Introduces the student to the elements of composition and critical reading. Do signed to assist the student to make a successful transition to English 101. Emphasizes grammar, sentence structure, paragraph and entry writing.



22 College Literary Magazine Editing (2) RPT 3

Lecture 2 hours.

This course studies the ways to process poerry and pusse submitted to the editor of the literary magnetine (Direction), including critical evaluation of shirt stories and poerry, rewriting, editing, and copy making. In addition, is includes printshop experience doing makeup and proof-mading, study and evaluation of other college literary magneties, and training in magnetic promotion and sales.

33 Basic Vocabulary (3) (NDA)

Lectury 3 hours.

Prerequisite: English 20 with a grade of "C" or better or placement in English 21 or 86.

Enlarges and enriches the student's vocabulary through a systematic study of word meanings, structure and origins. Introduces the study of semantics. Develops apelling ability. Teaches the use of dictionaries and other tools for building vocabulary.

\$1 Intermediate ESL Reading & Vocabulary (3) (NDA)

Levius & Louis

Prerequisites Entry level store on attenuent test.

English as a Second Language Program. Academic reading for intermediate second language students. Development of skills leading to college reading proficiency.

82 Introduction to College English as a Second Language (5) (NDA)

ecture 5 hours.

Prerequisites English 81 with a goade of 'C' or appropriate placement in ESI. Test

Intended for students whose native mogue is not English, Introduces students to English pronunciation parterns, have sentence parterns, and elementary communication skills. Emphasizes reading improvement for comprehension, developing a sight vicabulary, and learning word-attack skills.

B3 College Conversational English as a Second Language (3) (NDA) RPT 1

Lectury 3 lours

Prerequisites Appropriate placement on ESL Test.

Intended for students whose native tongue is not English. Emphasizes basic language acquisition skills, including innonation patterns, American idioms, screence patterns, grammar as check for language entreceness. Also included are listening skills, reading for vocabulary and comprehension, and goaled writing.

84 College English as a Second Language I (5) (NDA)

Lecture 5 hours.

Prerequisites Appropriate placement on ESL Test, or English 82 wish a goods of "C" or better.

Intended for students whose native tangue is not English. An intensive multi-shills course emphanting basic aspects of English grammar, proctuation, spelling, sentence structure. Includes speaking and linening shills, reading for sociabulary and comprehension, and guided writing.

85 College English as a Second Language II (5) CSU

Lecture 5 hours

Prerequisites Appropriate placement on ESL Test or English 84 with a grade of 'C' or better.

For students whose native songue is not English. Includes drill in the sumstruction of sentences and their word order, grammar, idents, punctuarion, capitalization, vacabulary, and spelling. Also includes trading for comprehension and practice in paragraph writing.

6 College English as a Second Language III (5) UC:CSU

Lecture 5 hours

Prerequisites Apprepriate placement on ESL Test or English 83 with a grade of "C" or better.

For students whose native tongue is not Eaglish. Continues to work on the fundamentals of English as a second language. Places emphasis on writing, syntax, and reading.

87 Advanced ESL: Reading and Vocabulary (3) CSU

Lecture 5 boso

Prerequisites Appropriate placement on ESL Test or English 86s with grade of 'C' or bester.

A reading skills course designed for advanced ESL students. Includes trading for compachemies, skimming, scanting techniques, as well as exercises in critical studing and non-prote reading. Will improve vocabulary through various word study exercises.

101 College Reading and Composition I (3) UC:CSU (CAN ENGL 2)

Learner 3 hours.

Prerequisites English 28 with a "C" or buster, or a satisfactory score on the English Placement test.

Develops proficiency in reading and writing through application of the principles of themes and the techniques of critical thinking. Prerequisite is an understanding of the elements of grantsat, purcutation, and semeous structure. Required for English majors.

102 College Reading and Composition II (3) UC-CSU (CAN ENGL 4)

Prerequisites English 101 with a grate of "C" or better.

Literature, critical analysis and composition. Concentrates on types of literature and the development of critical pulgement. Emphasizes written analysis of short stories, poetry, novels, and drama, using logical reasoning and strategies or argumentation. Builds on the reading and writing skills threeloped in English 101. Required for English majors.

103 Composition and Critical Thinking (3) UC:CSU

Lecture 3 hours

Prerequisites English 101 with a grade of "C" or hetter.

A course specifically designed to deal with the inner of critical thinking and written expression. It builds on the reading and writing skills developed in English 101. Papers of greater length and depth are required.

127 Creative Writing (3) **UC:CSU (CAN ENGL 6) RPT 3

Lecture 5 hours.

Prerequirites English 101 with a grade of 'C' or better.

Persents a workshop in creative writing. Class and instructor informally discuss and criticist students' plays, poems, short stories, and essays. Encourages modest participation in campus lineary publication.

203 World Literature 1 (3) UC:CSU

Lecture 3 hours.

Prerequisites English 101 with a goode of "C" or botten English 102 recommended has not required.

Introduces the great books of the world from Homer to the Resistance.

204 World Literature II (3) UC:CSU

Lecture J bours

Prerequisites English 101 with a grade of 'C' or horrer. English 102 recommended but not required.

Continues the study of English 203, presenting great broks of the world from the Renaissance to recent times. English 203 is not a porrequinite

205 English Literature I (3) UC:CSU (CAN ENGL 8)

Lecture 3 Source . .

Prevequisites English 101 with a grade of "C" or bester. English 102 reconsecuted has cost required.

Surveys English Incrasure from the Angle-Sason period chrough the 18th century. Required for English majors.

206 English Literature II (3) UC:CSU (CAN ENGL 10)

Lecture 3 hours

Prerequisites English 101 with a grade of "C" or better. English 102 recommended but not required.

Continues the study of English 20%, covering English literature from the 18th century to the 20th century. English 20% is not a prerequisite.

Required for English dispose.

207 American Literature I (3) UC:CSU (CAN ENGL 14) Lecture 3 Journ.

Prerequisites English 101 with a grade of "C" or better. English 102 recommended but not required.

Surveys American literature from its beginning to 1860;

208 American Literature II (3) UC:CSU (CAN ENGL 16)

Lecture & hours

Preroquisite: English 101 with a grade of "C" or better. English 102 recommended but not required.

Continues the study of English 207, covering American literature from 1860 to the 20th century, English 207 is not a prerequisite.

209 California Literature (3) UC:CSU

Lecture 3 hours

Prevequiaise English 101 with a grade of "C" or better. English 102 recommended but not required.

The course presents selected works by writers observing California life. Readings from sources as varied as Native-American legends and Hollywood memoirs will demonstrate such aspects of the study of literature as plot and structure, character, point of view, figurative discourse.

211 Fiction (3) *UC:CSU (CAN ENGL 18) RPT 1

Lecture 3 hours.

Prerequisites English 101 with a goade of "C" or better. English 102 recommended but not engaged.

Emphasian selected great novels and short stories from French, German, Russian, English, Anserican, and Spanish literature.

212 Poetry (3) *UC:CSU (CAN ENGL 20) RPT 1

Lecture 3 bours

Prerequisites English 101 with a grade of "C" or better. English 102 recommended has not required.

Emphasies reading, discussion and analysis of selected poems. Designed to increase the student's understanding and appreciation of all forms of poetry.

213 Dramatic Literature (3) *UC:CSU (CAN ENGL 22) RPT 1

Lecture 3 biners

(Same as Theater 125. Credit was given for both course.)

Prerequisites English 101 with a grade of "C" or better.

English 102 recommended but out required.

Surveys dramatic literature from the beginnings to the present day with amphasis on the works of the major playwrights, such at Sophocles, Shakespeare, Molere, Shaw, Ibsen, O'Neill, and Williams.

214 Contemporary Literature (3) UC:CSU

Lecture 3 hours.

Prevequisites English 101 with a grade of "C" or better. English 102 recommended but not required.

Concentrates on significant literature since 1920, primarily American and British. Includes lectures and discussions, oral and switten reports. Emphasis is placed upon critical analysis of short more, movel, drama, and poetry.

215 Shakespeare I (3) UC:CSU

Leener J hours.

Preroquisites English 101 with a grade of "C" or better. English 102 recommended but not required.

Introduces the life and works of William Shakespeare, with emphasis on Shakespeare's milim. Emphasises detailed study of several himoty plays, earlier comodies and tragedies.

216 Shakespeare II (3) UC:CSU

Lecture & bear.

Preraquisites English 101 with a grade of "C" or house.
English 102 recommended but use required. May be taken before
English 215.

Concentrates on the later consedies and tragedies, beginning with the problem consedies, and proceeding through major tragedies.

218 Children's Literature (3) CSU

Lecrary 3 hours.

Preveguisites English 101 with a grade of "C" or better.

A survey of literature suitable for children of different age levels. Emphasis will be placed on story telling, acquaintance with authors and the development in children of desirable artitudes suward literature. Recommended for peospective nutsery, kindergarten, elementary and secondary trachers. Parents will find the course helpful in discovering what reading material is available.

219 Literature of American Ethnic Groups (3) UC:CSU

Lecture 3 bours.

Prerequisites English 101 with a grade of "C" or bester.

A study of the literature of American ethnic writers: mories, novels, plays, poems, essays, and other non-fiction prose works. Works are examined in the context of traditional and contemporary problems of American ethnic groups, each of which offers a unique contribution to American society.

239 Women in Literature (3) UC:CSU

Lecture 3 hours.

Prerequisite: English 101 with a grade of "C" or better,

English 102 recommended but not required.

Focuses on major plays and works of fiction from ancient times to the present which make women their central characters. This course considers the reflection of women's changing status given by the great writers.

240 Literature and the Motion Picture I (3) AUC:CSU

Lecture 3 hours

Prerequisites English 101 with a grade of "C" or better.

Examines the comparative arts of literature and the motion picture. Includes readings of literary classics, screenings of film classics based upon these literary sources, discussion, and writing of several critical papers.

250 Mythology and Literature (3) UC:CSU

Lecture 3 hours.

Prerequisite: English 101 with a grade of "C" or better. English 102 recommended but not required.

Introduces the mythology of Western and Near-Eastern civilizations, broadened to include such other elements of folk rale as murchen, fairy tale legend, etiological tale, fabie, myth, and morif.

251 The Short Story (3) CSU (UC pending)

Lecture 3 hours

Prerequisites English 103 with a grade of "C" or better. English 102 recommended but not required.

Focuses on the short story tradicion, especially by Americans, exploring major works and developments within the genre. Elements of fiction as expressed by diverse authors will be examined.

252 The English Bible as Literature (3) UC:CSU

Lecture 3 hours

Prorogalistic English 101 with a grade of "C" or better. English 102 recommended.

A study of the Bible with the Oxford Annotated Revised Standard Version with the Apocrypha at the basic text.

270 Science Fiction (3) UC:CSU

Lecture 3 hours

Prerequisites English 101 with a grade of "C" or better. English 102 recummended but not required.

Presents science fiction as literature, with emphasis on the use of mythology, science fiction by scientists and miniscientists, policical and philosophical oriented science fiction, and science fiction as fantasy and escape literature.

185 Directed Study - English (1) †UC:CSU RPT 2

285 Directed Study - English (2) †UC:CSU

385 Directed Study - English (3) †UC:CSU

Conference I have per unes

Allows students to pursue Directed Study in English on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - English

See Cooperative Work Experience Education

*UC Credit Limits Maximum one course.

**UC Credit Limits Maximum 1000 source.

UC Credit Limits One course from English 240 and 241.



English - Business

See course listings under Office Administration

Environmental Science

The Human Environment: Physical Processes (3) UC:CSU

Examines the impacts of human activities on our physical life support system. The Scientific Method and rechnology, and basic principles of nature and energy provide the perspective to understand the nature of our environmental problems and what may be done to prevent future impacts and remediate those that have already occurred. Topical environmental inner (e.g. climate modification, the Ocone layer, waite disputal, air pollution, energy issues, etc.) will be examined with careful consideration of the basic science which solutions to these phoblems must accommodate.

The Human Environment: Biological Processes (3) *UC:CSU

Examines the impacts of human activities on the earth's loological systems and resources. This includes discussions of the scientific hases and principles of: ecology and ecosystem development and dynamics; population dynamics; and environmental toxicology. Catchil examination will be made of the scientific basis for determination of impact of pollution, agriculture, and other human activities. Finally, what has been learned will be applied in understanding the problems of establishing meaningful environmental atandards and regulations, with careful consideration and couphasis of the basic sciencific realities they must reflect.

Introduction to Environmental Geology (3) UC:CSU

Lecture 3 hours.

Some in Geology 10. Credit not given for both courses.

Studies the impact that geologic processes have on the environment and human life. Topics creating special problems and limiting future apportunities, including geologic hatards (earthquakes, volcanium, flooding, downslope incovernent, coastal environ and deposition), environmental health, earth resources (water, nunerals, fossil fuels, wind and georhermal power, nuclear energy) will be discussed.

Introduction to Air Pollution (3) UC:CSU

Lecture 3 hours

Same as Physical Science 5. Credit not given for both courses.

Introduces the student to the sources of air pollution and the technical problems of reducing air pollution. The course includes the physics of the atmosphere, the chemistry of air pollutants, analysis methods and possible methods of pullution control.

Geography of California (3) UC:CSU

Lecture 3 hours

Same at Geography 14. Credit not given for both courses.

Covers the regions of California, their physical feature and resources in relation to patterns of population and settlement, economic activities, transportation noutes and trade.

18 People and the Earth's Ecosystem (3) UC:CSU

Some as Geography 9. Credit not given for bath courses.

Examines the historical and contemporary roles of human societies as a major agent of biological change in the earth ecosystem. Provides the basis for a revised biophysical geography that avoids the view that man is an entity apair from the ecosystems (nature) and opens the door to an understanding of biophysical geography largely freed from the concept that note was a planer virgin until the beginning of the industrial sevolution.

31 Energy and Power (3) UC:CSU

Lecture 3 hours.

Introduces the student in sources of energy, from butting coal to nuclear fusion. Discusses the physical principles involved with each source of energy with emphasis on feasibility and potential pollution problems of each. Topics to be discussed include: fostil-fuel, nuclear, hydroelectric, tidal, geothermal, solar, and other energy forms. Energy used for transportation and residential living a discussed. The important role of conservation is examined and students are encouraged to formulate their twen energy policies. This course is designed for the general education students.

185 Directed Study - Environmental Science (1) †UC:CSU RPT 2

285 Directed Study - Environmental Science (2) †UC:CSU

385 Directed Study - Environmental Science (3) †UC:CSU Prerequisiter A minimum of 3 units in Environmental Science. Conference 1 hour per unit.

Allows students to pursue Directed Study in Environmental Science on a contract basis under the direction of a supervising instructor.

*UC Credit Limits Maximum one course.

Equine Science

See Agriculture course listings 600-699

Finance

1 Principles of Finance (3) CSU

Lecture 3 hours

Examines the principles of money, credit, banking, and the role of the Federal Reserve System. Studies husiness organization and financial policies, the financial oysem and types of financial instruments, interest rates, capital management, money and capital markets, and the effect of government policy on those financial markets.

2 Investments (3) CSU

Lexture 3 hours.

Emphasizes the study of the stock market from a practical viewpoint, including reading of the financial pages, analysis of industrial, railroad, public unility, murual fund, tax feer and government securities, and the proper procedure for boying and selling stocks, bonds, and options

Personal Finance and Investments (3) CSU

Lecture 3 linus.

Cantains fectures, discionisms, and proctice in applying the principles of accounting, banking, finance, office methods, management, production and merchanding to one's personal affairs. Stresses family budgering, consumer credit, home ownership, life and property insurance, investment and savings plans, social security and retirement plans, and personal record keeping.

French

Elementary French I (5) UC:CSU (CAN FREN 2)

Recommendeds Concurrent enrollment in French 101.

Recummended: Elegibility for English 28. Students with previous knowledge of French should not enrull in French 1, hut in a higher level. Native speakers should enrall in French 4. 5, or 6.

Introduces the fundamentals of pronunciation and grammar, practical wocabulary, and meful phrases. Emphasizes the ability to understand, speak, read, and write simple French. Exposes the student to the culture of France. English is used to explain grammatical concepts but otherwise the class is conducted as much as possible in Fernch. Corresponds in the first year of high school French.

2 Elementary French II (5) UC:CSU (CAN FREN 4)

Precequisites French I in one year of high school Prench with a grade of 'C' or better in either case.

Recommended: Concurrent enrollment in French 101.

Recommended: Eligibility for English 28. Scudents with previous knowledge of French should not enrull in French 2, but in a higher level. Native speakers abould rocall in French 4, 5, or 6.

Continues the study of basic French conversation using practical vocabulary and regular and irregular verbs in the present and past tenses. Embraces readings and dialogues based on French culture. Stresses ural communication and reading and writing for comprehension. The class is conducted entirely in French except for grammar clarification

Intermediate French I (5) UC:CSU (CAN FREN 8)

Lecture 5 hours

Prevequisites French 2 or two years of high whool French with a grade of C or better in either case.

Recommended: Concurrent euroBuent in French 101.

Recommended: Eligibility for English 28.

Notes Concurrent enrollment in French 8 is strongly recommended for nonnative speakers.

Completes the snady of basic French grammar, Includes more challenging texts, and further amelioration of writing and speaking through written and otal dialogues. Teaches French culture as background for conversation and reading. Class is conducted entirely in French encept where grammatical concepts need English clarification.

Intermediate French II (5) UC:CSU (CAN FREN 10)

Prerequisites French 3 as three years of high school French with a goods of C or better in either case.

Recommended: Concurrent enrollment in French 101.

Notes Concurrent enrollment in French & it strongly recommended for nonnattive speakers,

Utilises more advanced reading of texts and cultural material from France and French-speaking countries, in conjunction with conversation and discussion. Incorporates seview of the basic structure and grammar of the French language. Emphasizes written composition as well as listening compachemion.

Advanced French I (5) UC:CSU

Prerequisites: French & wish a grade of "C" or better.

Recummended: Concurrent curollment in French 101.

Note: Cancument eurollmons in French B is strongly recommended for nannative speakers.

Continues the study of grammar and of liverature from France and French speaking countries. Includes advanced composition, and the use of practical idioms. Stresses oral and written reports on France and Frenchspeaking countries.

Advanced French II (5) UC:CSU

Prerequisites Trench 5 with a goade of "C" or lotter.

Notes Concurrent envallment in French 8 is strongly recommended for non-

Studies some important texts from the seventeenth century through the present day, with special emphasis on oral discussion and written analysis of the literature of France and French-speaking countries.

Conversational French (2) CSU RPT 3

Prerequisite: French 2 or equivalent with a grade of 'C' or better. Recommended: Concurrent enrollment in French 101.

Not offered every semester.

Develops convenational skill and fluency in relation to certain everyday situations. Emphasizes idions, correct use of tenses of French verbs, and fundamental sestence structure.

81 Practical French for Business (3)

Lecture 3 hours

Prerequisites French 1 or equivalent,

Not offered every somester

This course consists of lectures in English and exercises and convenutional practice in French, related to commercial and marketing environments. Students will acquire skills in business correspondence in French and familiarize themselves with business and social practice in French-speaking countries.

101 French Language Laboratory (1) CSU RPT 3

Laboratory 2 hours

Note: Recommended for all mudents envelled in French 1. 2, 3, 4, 5, or 8.

(This is a credit/mo-credit course. Students receive one unit of college credit with no letter grade by spending at least 32 hours over the semester using the equipment and completing the lab workbook assignments.

This language workshop uses multi-media (video, audio and computers) to enhance instruction. The workshop meets on the first floor of the Library in The Learning Center (TLC), the Media Center, and/or in MI, 2114.

185 Directed Study - French (1) †UC:CSU RPT 2

285 Directed Study - French (2) †UC:CSU

385 Directed Study - French (3) †UC:CSU

Conference I have per unit

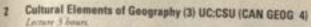
Allows students in pursue Directed Study in French on a counter batis under the direction of a supervising instructor

Geography

Physical Geography (3) *UC:CSU (CAN GEOG 2) Lecture 3 how

May be offered as an houses section.

Studies the main features of man's physical environment with emphasis on earth our relationships, plobes, maps, weather, climate, landforms, soils, natural segretation, and their patterns of world distribution.



May be offered as an honore section.

Studies the basic human/cultural elements of geography and their correlation with the physical environment. Emphasis on population, cultural diversity, language, religion, means of livelihood, serelement patterns, political organization. Specific countries, areas, or cultural groups illustrating various topics are utilized as case studies.

Introduction to Weather and Climate (3) UC:CSU

Same as Metoarology 3. Credit not given for both source.

Studies the nature and causes of weather phenomena including winds. clouds, rain, lightning, tornadoes and hurricanes, solar energy, composition of the atmosphere, causes of air pollution, weather modification, the impact of weather on the human environment, and introduction to climate.

Geography of Resource Utilization (3) UC:CSU

Develops the basic principles for the use and conservation of human and natural resources through a representative study of primitive livelihoods, world agriculture, forestry, fushing, mining, manufacturing, service industries, transportation, and trade.

World Regional Geography (3) UC:CSU

A geographical survey of the world's major orgious with emphasis on those features important to an understanding of current global concerns

Introduction to Urban Geography (3) UC:CSU Lecture 3 hours

Studies the origin, development, distribution, and regional variation of the world's cities, with particular emphasis on an analysis of the functions and patterns of the American cities.

People and the Earth's Ecosystem (3) UC:CSU

Lecture 3 hours.

Sens as Environmental Science 18. Credit not given for both courses.

Examines the historical and contemporary roles of human societies as a major agent of biological change in the earth ecosystem. Provides the basis for a revised biophysical geography that avoids the view that man is an entity apart from the ecosystems (nature) and opens the door to an understanding of hisphysical geography largely freed from the concept that ours was a planet virgin until the beginning of the industrial revolution.

Geography of Africa, the Middle East And Oceania (3)UC:CSU

Correlates the physical background with cultural, economic and political development of principal countries and peoples of Africa, Middle East, and Oceania.

Geography of California (3) UC:CSU

Same at Environmental Science 17.

Delineates the regions of California, their biophysical features and resources in relation to patterns of population and settlement, economic activities, trade, transportation, and environmental problems.

Physical Geography Laboratory (2) *UC:CSU

Lecture 1 hour; laboratory 2 hours. Prerequisites Geography 1.

Covers plotting, interpolating, and interpreting of earth-sun relations: time, earth representation through globes and maps; temperature, mosture, pressure, climate, natural vegetation, soil groups, and landform evolution by tectonic forces, erosion, and deposition.

Physical Geography & Laboratory (5) *UC:CSU

Lecture d hours: Lehenmary 2 hours Same as Geography I and 15 combined.

Studies earth-our relations, time, earth representation through maps and globes, remperature, moisture, pressure, clienare, vegetation, soil groups, landform evolution by rectonic and gradational forces, and air photo interpretation. Laboratory involves ploeting interpolating, and interpreting data that is specifically linked to lecture topics.

20 Field Studies in California Geography (6) CSU

Lecture 6 hours

Field surveys of people-land relations on the diverse physical and cultural landscapes of Southern California. These surveys enhance the understanding of past and present cultural environments that people superimpose on their natural environment.

Introduction to the Geography of the United States and Canada (3) **UC:CSU

Leitane 3 hours.

Provides a regional study of the western United States and Canada, the Eastern United States and Canada, and Alaska and Hawaii. This course explores the physical and cultural geographic backgrounds of Anglo-America and the current economic and land-use patterns.

22 Introduction to the Geography of Latin America (3) **UC:CSU

Provides a regional study of Mexico (1 unit), Central America and the Carribean (1 unit), and South America (1 unit). Course examines the physical and cultural backgrounds of Latin America and the current landuse and economic putterns.

Introduction to the Geographic Information Systems (3) CSU Lecture 3 hours.

An Introduction to fundamentals of GIS, including bistory of automated mapping introduction to cartographic principals (scales, excedinate systems, projections); review of hundware/software used in GIS; applications of GIS technology in environmental sciences, government, business; rerminglesgy, data, and spatial analysis.

32 GIS Applications (3) CSU

Lecture I house Esbanatory I hours. Note: Recommended preparation - Geography 31

A brief survey of GIS fundamentals, including hands on experience using hardware/software. Emphasis on vector-based data using AreView and an introduction to hands-on work with raster-based data using ArcView Spatial Analysis Medule.

99A Intermediate GIS Applications (3) **UC:CSU

Lecture 2 hours: Laboratory 2 hours.

Note: Recommended preparation - Geography 32

Application of GIS fundamentals and AreView software to a semester-lung project, from inception and initial planning to data acquisition and final project design, using census and other real-world data. Use of Average, Spatial Analyst, and Network Analyst extensions.

998 Introduction to Global Positioning Systems (GPS) (1) **UC:CSU

Introduction to the terminology, exceptment, techniques of GPS, using a hand-held unit to determine location and completion of a traverse using GPS and a topographic quadrangic, collecting data to be used in a GIS.

185 Directed Study - Geography (1) TUC:CSU RPT 2

285 Directed Study - Geography (2) †UC:CSU

385 Directed Study - Geography (3) †UC:CSU

Conference I have per unit.

Prerequisites A minimum of 3 units in Geography.

Allows students to pursue Directed Study in Geography on a contract basis under the direction of a supervising instructor.

*UC Credit Limit: Maximum 5 units.

**UC Approval pending.

Geology

See also Environmental Science 1, 7; Oceanography 1, 10.

1 Physical Geology (3) UC:CSU (CAN GEOL 2)

Lecture 3 hours

Introduces the student to the general field of geology, including a study of the work of rivers, winds, glaciers, occass, vulcanism and scientilegy in shaping the earth, with emphasis upon the relationships existing between humans and the geological processes.

2 Earth History (3) UC:CSU

Lecture 3 boun

Marmielly offered in the Spring semester only.

Studies the evolving earth through its rock and fouril record. Incorporates concepts of place reconnects, age during, rock correlation and evolution to recomment the ever changing patterns of features, environments and organisms on the earth's surface from the formation of the planet in present day.

4 Physical Geology & Laboratory (5) UC:CSU

Lecture 4 hours, Laboratory 2 hours Same as Gooingy 2 and 6 combined

A study of the work of tivers, winds, glaciers, oceans, vulcanism, and seismology in shaping the earth, with couphasis upon the relationshops existing be-tween humans and the geologic processes. Laboratory exercises in rock and mineral identification, and map interpretation.

6 Physical Geology Laboratory (2) UC:CSU (CAN GEOL 2)

Lecture I hour; Leberatory 2 hours.

Prerequisites Geology 1 or concurrent excollment.

Laboratory exercises in identification of rock-making and one minerals, ignoous, metamorphic, and sedimentary rocks. Interpretation of nipographic maps, geologic maps and serial photographs. Geology 6 is intended in satisfy physical science lab credits for all students concentry cumiled in Geology 1.

7 Earth History Laboratory (2) UC:CSU

Lecture I hour, laboratory 2 hours.

Prerogalaites Geology 2 or concurrent excallment.

Offers appareunities to learn techniques and skills used in deciphering that himory. Includes the identification of fossils, use of maps, exercises in age dating, correlation, and reconstruction of ancient environments. Normally offered in the Spring semester only.

10 Introduction to Environmental Geology (3) UC:CSU

erture 3 hours.

Same as Europeanus Science 7. Cordir not given for both courses.

Studies the impact that geologic processes have on the environment and human life. Topics creating special problems and limiting future opportunities, including geologic hazards (earthquakes, volcatorm, flooding, downdope movement, coastal environmental health, earth resources (water, minerals, foosil fach, wind and goothermal power, midear energy) will be discussed.

11 Introduction to Geology: Our National Parks and Monuments (3) CSU

Lectury 3 bours

Surveys the geological development and features of our National Parks and Monumeurs with emphasis upon those located in the western United Seature, lovolves uposenal field reign.

12 Introduction to the Geology of California (3) UC:CSU

Lecture & hours

Surveys the physical and historical goology of California. Gives consideration to the twelve geometrphic provinces into which the State is divided, and so the characteristic goological record, with particular reference to the later part of earth history.

17 The Age of Dinosaurs (3) UC:CSU

Listure 3 hours

May be affered as an honory section.

Studies dinoscurian evolutionary patterns, including their origins, physiology, behavior, ecologic relationships, and extinction.

22 Geomorphology (4) UC:CSU

Lecture 3 hours: laboratory 2 hours.

Nates This course is taught in 2 unit modules.

Offers a basic course in the description, evolution, and classification of landforms. The student will have an opposituality to examine representative landforms through field trips.

185 Directed Study - Geology (1) †UC:CSU RPT 2

285 Directed Study - Geology (2) †UC:CSU

385 Directed Study - Geology (3) †UC:CSU

Conference I hour per unit

Allows students in purious Directed Study in Geology on a contract basis under the direction of a supervising instructor.

Health

7 Physical Fitness and Nutrition (3) *UC:CSU

Lecture 3 hours.

Considers the nature and importance of physical fitness and good nutrition in our personal and social development. Analyzes and evaluates various types of muscular activities in terms of students' needs and interests. Encourages the selection of nutritive foods for weight control, disease prevention, and general well-being.

8 Women's Personal Health (3) CSU

Lecture 3 hours.

This course provides a comprehensive overview of critical, epidentiological, contemporary, and cultural/ethnic women's health supics and a framework for informed personal decision making.

9 Health for the Mature Individual (3) CSU

Lectur 3 hours

Designed to meet the personal needs and interests of the mature and older students in the field of aging. Emphasis is placed on promoting and maintaining physical, emotional, and social good health, despite possible limitations of advancing years.

10 Health Education (2) *UC:CSU

Leave 2 boson.

Not an activity class.

Note: Credit given for either Health 10 or Health 11, but not buth. No credit given for students who have completed Health 11.

Considers the nature and function of health in our social pattern.

Conceptual analysis of major health problems designed so contribute to students' attitudes toward their roles as individuals physically, emorumally, and socially.

11 Principles of Healthful Living (3) *UC:CSU

Lecture 5 hours

Not an activity class

Note: Cerdit given for either Health 10 or Health 11, but not both. Encompanies the same content as Health 10 but explores the material in groune depth.



12 Safety Education and First Aid (3) UC:CSU

Lecture 3 hours

Does not meet health requirement for guadantina

Consurs of inseruction and practical application in the prevention of and care for common accidents and emergencies in the home, school, and community. Standard and advanced American Red Crow certificates may be granted upon satisfactory completion of the course. Becommended for physical relucation, recreation, and allied health majors.

185 Directed Study - Health (1) CSU RPT 2

285 Directed Study - Health (2) CSU

385 Directed Study - Health (3) CSU

Conference I have per unit

Allows students to pursue Directed Study in Health Education on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Health

See Cooperative Work Experience Education.

*DC Credit Limit: Maximum une course

History

Introduction to Western Civilization I (3) UC:CSU (CAN HIST: 2)

May be offered as an house services

Teaches historically major elements in the Western heritage from the world of the Greeks to the Age of Absolutism in the 17th century. Furthers beginning students' general education, introducing them to the ideas, arriendes, and institutions basic to western civilization and acquaints them, through reading and critical discussion, with representative contemporary documents and writings of enduring incerns.

Introduction to Western Civilization II (3) UC:CSU (CAN HIST 4)

Traches historically major elements in the Western heritage from the world of the Age of Absolution in the 17th century to the present. Furthers beginning students general education, introducing them to the ideas, serirudes, and institutions butic to western civilization and acquaints them, through reading and critical discussion, with representative contemporary documents and writings of enduring interest.

History of England and Great Britain I (3) UC:CSU

Surveys the political, economic, and cultural development of the British liles and the Empire from the earliest times to the eighteenth century.

History of England and Great Britain II (3) UC:CSU

Traces the political, economic, and cultural development of the British lides and the Empire from the eighteenth century to the present time.

History of the Americas I (3) UC:CSU

Lecrure 3 hours

Teaches the political, social, and economic development of the Americas from pre-Columbian times to the beginning of the development of

6 History of the Americas II (3) UC:CSU

Lecture 3 hours.

Surveys the development of the various national states with special consideration of the social and political affairs of the twentieth century.

The World's Great Religions (3) UC:CSU

Lecture 3 hours.

Offers a critical comparison of the world's girat religious, as well as an approcusion of religion's contribution to humanity's cultural heritage.

History of the American West (3) UC:CSU

Concerns the history of the evolving frontier from early explorations and the Western Movement to the late ninescenth ceasury. Includes the comoderation of the environmental factors that shaped the francier, the people who occupy the frontier, and their customs. A study of the rise of democracy in the West and its influence on the sest of the United States.

11 Political and Social History of the United States I (3) *UC:CSU (CAN HIST 8)

Lecture 5 heart.

May be affered as an himon section.

Surveys the history of the United States from pre-Columbian times to 1865. Devotes particular attention to the political and social development of this period. Surveys federal constitution

12 Political and Social History of the United States II (3) **UC:CSU (CAN HIST 10)

Lecture 3 hours

Surveys the political, social, and institutional changes in the history of the United States since the Civil Wat.

The United States in the Twentieth Century (3) **UC:CSU Lecrure 3 hours.

A historical survey of the zusior political, economic, intellectual, and cultural movements and events of the ownstieth century.

14 Selected Issues of United States History (3) "UC:CSU Lecture & Lean

Treate basic osues in United States history, including a study of the philosophy underlying the Declaration of Independence and the Constitution, the conflicting viewpoints of Hamilton and Jufferson, the causes of the Ceril War, the impact of the Industrial Revolution, an evaluation of the Progressive Movement and the New Deal, and the significance of America's emergence as a world power

15 Economic History of the United States (3) UC:CSU

Same as Examenics 10. Credit not given for both courses.

Stresses development and change in economic institutions. Considers the nature of American Capitalism and the effects of industrialization on American economic life

History of California and the Pacific Coast (3) UC:CSU

Surveys the history of the Pacific Court of North America from the period of the explorations to the present. Emphasizes especially the cultural, political, economic, and social development of California.

History of the Russian People (3) UC:CSU

Traces the policical, social, economic, and cultural developments of the Russian people from their origins to the present day. Emphasizes in particular the espansion of Russia, the interrelations between Russia, Asia, and the Wint, and Sovier Runia since 1917.

History of Africa (3) UC:CSU

Lecture 3 hours

Given the history of Africa from ancient times to the present. Includes the historical ramifications of the African Diaspora to the Western Hemsephere and the special relationship of Africa to the United States.

History of Contemporary China (3) UC:CSU

Explores contemporary China by examining traditional and postsevolutionary politics, economics, social structures, and ideas. The course raises questions about how China can accommodate elements of the past while building for the future.

American History in Film (3) UC:CSU

Lecture 3 hours

Sorveys American history from the Salem Witch trials in the Colonial period up to the Cold War, using both documentary and dramatized films so illustrate key events and ideas in American history.

The Afro-American in the History of the United States I (3) *UC:CSU

Surveys U. S. history from the early Colonial Era through the Civil War with special emphasis on the contribution of the African-American. Provides a background in the political and social development of the United States for students majoring in the Social Sciences and, in addition, for those who wish to gain a better understanding of the African-American in American civilization. Includes a survey of the United States Constitution.

The Afre-American in the History of the United States II (3) **UC:CSU

Surveys U. S. history from the end of the Civil War to the present time. with special emphasis on the African-American in the social and political development of American civilization.

The Mexican-American in the Political and Social History of the United States I (3) UC:CSU

Traces the historical esolution of the Mexican and his culture and institutions to 1865, and surveys the contributions of the Mexican-American to the United States, with particular emphasis on the Southwest, and the causes and consequences of the Mexican-American War.

44 The Mexican-American in the Political and Social History of the United States II (3) UC:CSU

Lecture 3 hours.

Traces the historical evolution of the Mexican-American since 1850 and analyzes the aftermath of the Mexican-American War, immigration from Mexico, the "Bracero" program, the Civil Rights movement, and the contributions of the Mexican American to the American experience.

The Role of Women in the History of the U. S. (3) UC:CSU LINTERP & BOWER

Explores the political, economic, social, and intellectual history of women in the development of the United States from the early colonial era to the present day with special emphasis on their contributions as well as their problems.

86 Introduction to World Civilizations I (3) UC:CSU

Traces the development and interrelationships of the major world civilizations and their cultural traditions and contributions from the nutlient times to the beginning of the era of European expansion in the tioneenth century.

87 Introduction to World Civilization II (3) UC:CSU Lecture 3 hours.

Traces the development and interrelationships of the major world civilizations and their cultural maditions and contributions from the era of European expansion in the stateenth ceasury to the present.

185 Directed Study - History (1) †UC:CSU RPT 2

385 Directed Study - History (3) †UC:CSU

Conference I hour per unit.

Allows students to pursue Directed Study in History on a contract basis under the direction of a supervising instructor.

*UC Credit Limits Hozory 11 and 41 combined, maximum one course. "UC Credit Limits Houry 12, 13 and 42 combined, maximum one

*UC Credit Limit: No credit if taken after History 11 or 41.

Horticulture, Ornamental

See Agriculture course listings 700-899.

Humanities

Cultural Patterns of Western Civilization (3) UC:CSU Lesture 3 hours.

An exploration of our possibilities as human beings and the creative process underlying our greatest achievements in art, music, craftmunship, religion, literature, philosophy, and scientific exploration, as well as an attempt to see the place of each of these in a total perspective on the human condition.

Studies in Selected Cultures (3) †*UC:CSU RPT 1 Lecture 3 hours.

A study in depth of a particular culture such as Modern Great Britain. Imperial China, Southeast Asia, Renaissance Italy, etc., including historical background, significant cultural trends, and key personalities.

The Arts of Contemporary Society (3) UC:CSU

A cultural history, including literature, music, visual arts and film of the 20th century. Emphasis is on Western European and American culture and ideas basic to the development of contemporary art.

Great Men, Great Eras (3) *UC:CSU RPT 1

Lecture 3 hou

May be offered as an honors section.

An intendisciplinary program in the liberal arts, which covers an historical period such as the Renamance from the perspectives of philosophy, art, music, literature, architecture, science, etc.

THE HUMANITIES CORE CURRICULUM HUMANITY AND WESTERN CULTURE

Humanities 11, 12, 13 and 14.

Designed to meet a large part of the general education requirements for the Associate in Arts degree and for students transferring to four-year institutions. These courses offer a unique opportunity for a comprehensive look at our cultural heritage. Different instructors present the art, history, literature, music, and philosophy of western civilization from prehistoric times to the present. There are no prerequisites, and each course may be taken separately.

- The Ancient World (6) UC:CSU
- The Middle Ages and the Renaissance (6) UC:CSU Lecture & hours
- From the Reformation to the French Revolution (6) UC-CSU Lecture & hours
- The 19th and 20th Centuries (6) UC:CSU Lecture 6 hours.
- The Beginnings of Civilization (3) UC:CSU

Introduces the general concepts of the humanities from ancient times to the Renaissance, Literature, ideas, and art are studied and compared in relation to their background, medium, organization, and tryle. Stress to placed on awareness of differences in cultural heritages, values, and perspectives as revealed in the Arts.

People in Contemporary Society (3) UC:CSU Lecture 3 hours.

Surveys humanity's cultural development from the Renainance to the present. Presents general information on the arts, literature, and ideas of the Renaissance, Baroque, Neoclassic, and Romantic periods. Concludes an examination of Twentieth Century culture in particular. Since Humaniries 30 and 31 are independent of each other, they need not be taken in successive order.

People and Their World: Technology and the Humanities (3) UC:CSU

Locraine, V Inner

Examines art, music, literature, drama, philosophy, and history in an exploration of the urban environment and society as it has been affected by rechnology

People and Their World: The Creative Process (3) CSU

Surveys humanity's creativity at expressed in myths and docume and explores works of art and literature to discover the range of humanity's creative intriner. Involves art, music, Interature, psychology, drama, philosophy, and history.

Cultural Heritage of Los Angeles (3) CSU

Lecture 3 hours

Examines the unique qualities of the greater Los Angeles area through a study of its geography, archeology, hostery, art, architecture and ethnic contributions. Classroom persentations will be supplemented extensively with field trips to local sites.

Current Musical Dramatic and Art Events (2) CSU RPT 3

Lecture 1 hour, field trips 3 hours

Enriches the academic experiences in art, dance, drama, and music. Expands cultural awareness of the scudent by providing opportunities or attend a wide variety of concern, plays, dance, and are events; and to discors these with faculty members and guest arrism; to concentrate on one area, supplemented by the other three

- 185 Directed Study Humanities (1) TUC:CSU RPT 2
- 285 Directed Study Humanities (1) TUC:CSU
- 385 Directed Study Humanities (3) TUC:CSU

Conference I have per simil

Allows students to pursue Directed Study in humanities on a contract basis under the direction of a supervising instructor.

*UC Credit Limit: Maximum one course.

Industrial Technology

Industrial Technology courses are listed individually under sub headings, e.g., INDUSTRIAL TECHNOLOGY - MACHINE SHOP

> Automotive Service - Listed separately Drafting-Mechanical (includes CAD) Electrical Construction and Maintenance Machine Shop Numerical Control (includes CAM/CNC) Welding Woodworking/Cabinetmaking

Industrial Technology classes are affiliated with the Society of Manufacturing Engineers and American Welding Society.

Cooperative Work Experience Education -Industrial Technology

Ser Cooperatore Work Experience Education

Industrial Technology Drafting - Mechanical

Computer Aided Drafting

105 Industrial Print Reading I (3) CSU

Lecture 2 hours; laboratory 2 bours.

Provides training in reading basic engineering blueprints widely used in contemporary manufacturing industries. Both the visualization and interpretation facets of mading are given extensive coverage. Exposure and malysis of common drawing types, views, lines, dimensions, inferances, calloun, nores, symbology, and revision procedures are included.

110 Mechanical Computer-Assisted Drafting I (3) CSU

Lecture 2 boun; laboratory 5 boun Some in E.M. 110. Credit not given for both inurses

A foundational course in the theory and practice of mechanical computerassisted drafting. Topics include technical sketling, hardware devices, software utilization, orthographic projection, single and multiple views, and hasic dimensioning standards.

112 Applied Technical Drafting I (4) CSU

Lecture 2 hours: Saboratory 4 hours.

Instructs in the basic underlying principles and theories of mechanical drawing, the use and care of instruments and equipment, and blooprinting. Topics covered include freehand technical sketching. orthographic projection and basic multiview detail drawings, lettering, dimensioning standards, isometric pictorial drawing, sectional views, auxiliary views, and development of flat patterns.

115 Mechanical Computer-Assisted Drafting II (3) CSU

Lexage I hours: laboratory 5 hours.

Same as E.M. 115. Credit not given for both courses

An elementary course in the theory and practice of mechanical computeranisted drafting. Units include pictorial sketching, computing equipment, software manipulation, isometric projection, oblique projection, and pictorial dimensioning conventions.

205 Technical Descriptive Geometry (3)

Lecture 2 hours; Laboratory 2 hours.

Same as E.M. 205. Credis not given for bash courses

Provides training in the analysis and solution of orthographic projection problems through application of the fundamental principles of descriptive geometry. Emphasis is placed on exposure to and interpretation of points, lines, and planes in primary, secondary, and successive auxiliary views. Theory and practice are included that involve visualization and graphic representation of intersections, angles, parallelism, perpendicularity, and revolutions.

210 Mechanical Computer-Assisted Drafting III (3) CSU

Lecture 1 hours, laboratory 5 hours.

Same as F.M. 210. Credit not given for both courses

An introductory course in the principles and practices of mechanical computer assisted drafting. Areas covered include basic sectional view, cutting planes, section lining, basic auxiliary views, angle determination, and transfer distances.

212 Applied Technical Drafting II (4) CSU

Lecture 2 hours: Inhonarry 4 hours.

Applies the concepts and skills learned in basic drafting to the manufacturing industry. An intermediate level of intensity is engaged that includes oblique pictorial drawing, advanced sectioning, advanced auxiliary, basic assemblies, advanced sheer metal, and orchitical inking. Includes a study of dimensional inferancing conventions and specification of screen thread callours.

215 Mechanical Computer-Assisted Drafting IV (3) CSU

Lecture 1 hours: laboratory 5 hours.

Same as E.M. 215, Condis not given for both courses

A basic course in the concepts and skills of mechanical computer-assisted drafting. Units include detail drawings, dimensional tolerancing, feature specification, assembly drawings, parts for generation, and screw thread callours.

310 Mechanical Computer-Assisted Drafting V (3) CSU

Lecture I hours: laboratory 5 hours.

An intermediate level course in concepts and skills of muchanical computer-assisted drafting. Areas covered include advanced sectional views, surface sessure specification, advanced anxiliary views, and geometric tolerancing.

312 Applied Technical Drafting III (4) CSU

Lecture 2 hours; laboratory 4 hours

Emphasizes the advanced study of drafting industrial production parts. Includes the drawing of cast and machined details for compechensive assemblies. Devoces special attention to surface teature specification, revision documentation, working drawings, and precision fits for functional holes and shafts, AWS welding symbology, detail assemblies, and geometric dimensioning and solerancing.

315 Mechanical Computer-Assisted Drafting VI (3) CSU

Letters 1 hours; laboratory 5 hours.

A mid-level course in the concepts and shifts of mechanical computerassisted drafting. Units include detail assemblies, welding symbology, working drawings, ansi precision fits, advanced assemblies, and drawing revisions.

Industrial Technology -Electrical Construction And Maintenance

173 Electrical Codes and Ordinances (3) RPT 1

Lecture 3 hours.

Offers special training for electrical wiremen who desire to become choroughly familiar with the various codes and ordinances under which they work. The student studies general codes, wiring methods and fittings, and circuit requirements specified in the various ordinances.

273 Electrical Codes and Ordinances II (3) RPT 1

Lecture 3 hours.

Continues codes and ordinances for electrical wiremen. Areas of study include code requirements on equipment installation, motor installations various types of occupancies, and high voltage circuits.

Industrial Technology - Machine Shop

130 Technology of Metal Machining Processes I (3)

Lecture 1: laboratory 5 hours. Industrial Technology 130 carried be taken at the same hour in the same semester as 230, 330, and 331.

An introduction to the fundamentals of metal-machining processes. Theory is supplemented with demonstrations and/or practice on: lathes, mills, grinders, drills. The course conveys concepts of metal-machining to draftpersons, engineeridesigners, NC programmen/ operators, QC inspectors; and provides entry-level skills to machinins, machine operators, and tool makers.

230 Technology of Metal Machining Processes II (3)

Excture I bourt Laboratory 5 hours.

Prerequisites Industrial Technology 130, Industrial Technology 230, 330, and 331 cannot be taken at the same hour in the same semester.

Increases the depth and breadth of understanding of the recordical concepts and practical skills introduced as Industrial Technology 130. The moderns will advance their studies in metallurgy theory and practice, engineering materials, methology, and conventional machining techniques. EDM will be introduced.

330 Technology of Metal Machining Processes III (3)

Lecture I hour; Lehmatory 5 hours.

Prerequisites Industrial Technology 250, Industrial Technology 230, 330, and 351 cannot be taken at the same hour in the same semester.

Emphasis is placed on the development of skill and concepts learned in Industrial Technology 130 and Industrial Technology 230 for those persons who will be employed in the notal-machining industry. Close tolerance work will be required. Additional techniques such as EDM and jig boring will be introduced.



331 Tool Design For Production (3)

Lecture I bour; laboratory 5 hours

Prerequisites Industrial Technology 230. Note: Industrial Technology 230. \$50, and 531 cannot be taken at the same hour in the same semistre

The student studies the tooling and fixturing necessary for production in conventional and Computer Numerical Control (CNC). The course requires a high degree of initiative on the part of the student to complete

Industrial Technology Numerical Control

Computer Aided Manufacturing and Numerical Control

140 Fundamentals of CNC Technology (3)

Lecture 1 hour, Lebendory 5 hours

Prerequisite: Industrial Technology 150 or equivalent experience

Acquaints the beginning student in numerical control with the fundamental concepts underlying this new science. Studies the formar and manual preparation of tapes for a variety of busic numerical control systems. Provides practical experience in the set up and operation of numerical controlled machine mols employing point-us-point, continuous path and circular interpolation machining control.

242 Introduction to CAD/CAM (3)

Levelyn & Lines

Introduces fundamental concepts of computer-aided design and computer-aided manufacturing to the madent purming specialized work in architecture, mechanical drafting, engineering or numerical countd programming.

244 CNC Programming and Machine Operation - Lathe (3)

Lecture 1 hour; Lebonatory 5 hours.

Prerequisites Industrial Technology 140 or equivalent experience, plus Industrial Technology 250 or concurrent enrollment.

Continues the study of N/C part program preparation begon in Industrial Technology 140 and develops the techniques of planning for efficient operation sequencing. Compares N/C, CNC and DNC; including examination of those techniques in relation to CAD/CAM, Introduces computer-assisted N/C part programming languages, emphasizes writing and running CNC Lathe programs.

248 CNC Programming and Machine Operation - Mill (3)

Lecture I hour; laboratory 5 hours

Prerequisites Industrial Technology 140 or equivalent experience.

Acquaints the advanced student with three axis CNC applications evolving manufacturing planning, tooling design and/or specification. CNC mill programs employing full 3-axis positioning and implementation of programs using CNC mill equipment in the CAM lab. Scodents will learn and practice micro-computer assisted part programming of CNC mill.

444 Projects Laboratory-CNC Lathe Programming (3)

Urture 1 hour, Laboratory 5 boars.
Prerequisites Industrial Technology 140 and 244 with a grade of "C" or better.

Develops skills in the techniques of design, planning, and execution of computer numerical control programs for a CNC lathe. Part programs and CNC programming practices not possible in Industrial Technology 244 will be covered. Emphasis is placed on developing a project to be programmed and machined using a CNC lathe, requiring carensive job planning, independent study and development.

448 Projects Laboratory-CNC Mill Programming (3)

Lecture 1 hour; Laboratory 5 hours

Prerequisites Industrial Technology 140 and 248 with a grade of

Develops skills in the techniques of design, planing, and execution of computer numerical control peoprams for a cnc mill. Part programs and CNC programming practices not possible in Industrial Technology 248 will be covered. Emphasis is placed on developing a project to be programmed and machined using a case mill, requiring extensive jobplanning, independent study and development,

185 Directed Study - Numerical Control (1) RPT 2

285 Directed Study - Numerical Control (2)

385 Directed Study - Numerical Control (3)

Conference I hour per unit

Allows students to pursue Directed Study in Numerical Control on a contract basis under the direction of a supervising instructor,

911-941

Cooperative Work Experience Education -Industrial Technology

See Corporation Work Experience Education

Industrial Technology - Welding

Note: Credit for technical courses may or may not be transferable in other than major or related fields.

161 Oxy-Acetylene Welding I (3)

Lecture 1 hour; laboratory 5 hours

Gives the beginning student a solid foundation in the principles of oxyaccrylene welding and cutting. Emphasizes safety along with related information on equipment, methods and materials.

162 Oxy-Acetylene Welding II (3)

Lecture I hour, laboratory 5 hours. Prerequirites Industrial Technology 161.

Continues the training started in Osy-Acetylene Welding L includes a seview of safety, materials and equipment.

223 General Metallurgy I (4)

Leanne 4 hours

Presents an in-depth study of the production of ferrous metals, the physical and recentracial properties and characteristics of ferrous and non-ferrous alloys. Includes a study of the varying effects of heat and alloy composition relative to structure and properties of various metals.

261 Arc Welding I (3)

Lecture 1 hours belongsory 5 hours. Prerequisites Industrial Technology 161.

Provides the inident with the basic principles and skills necessary to perform shielded metal are welding operations successfully.

262 Arc Welding II (3)

Lecture 1 hour; laboratory 5 hours. Prerequisites Industrial Technology 261.

Continues the work begun in Arc Welding I. Reviews and extends information and skill training regarding safety, blueprints, materials. methods, and equipment.

361 Inert Gas Arc Welding I (3)

Lecture I hour; Liberatory 5 hours.

Prevequisites: Industrial Technology 261 and 262.

Gives the student a solid foundation in the principles and skills necessary to perform weldments necessfully ming Gas Tangeren Arc Welding (GTAW) and Gas Metal Arc Welding (GMAW) on fermus and nonferrous metals. Emphasizes GTAW.

362 Inert Gas Arc Welding II (3)

Lecture I bour, laboratory 5 bours.

Recommended: Industrial Technology 261, 262, and 361.

Completes the solid foundation in the principles and skills occurary to perform weldments successfully using Gar Tungsten Arc Welding (GTAW) and Gar Metal Arc Welding (GMAW), on ferrous and nonfermus metals. Emphasizes GTAW

461 Advanced Arc Welding I (3)

Lecture I hour; behaviory 5 bount

Prerequisites Completion of Industrial Technology 261, 262, 361, and 362 with grades of "C" or better.

Gives the student the depth of training for AWS-L. A. City Certification in are welding of structural steel. Provides related study for a hissal understanding of the welding processes as well as personent codes. Acquaistic the student with automatic and semi-automatic welding processes.

462 Advanced Welding II (3)

Lecture I hour; laboratory 5 hours.

Prerequisites: Industrial Technology 463 recummended, with a goode of C. or house.

Provides in depth training to prepare for AWS-LA City Certification in an; welding of structural steel. Related study for a broad understanding of the welding processes and pertinent codes. Applies automatic and semiautomatic welding processes.

Cooperative Work Experience Education - Industrial Technology

See Cooperative Work Experience Education.

Industrial Technology - Woodworking

120 Basic Woodworking (4) CSU

Lecture 3 hours: Lebenstery 3 hours.

Covers the care and use of hand mols and machines as well as fasteners, adhesives and basic cabines assembly. Also includes planning and mock billing. Emphasizes safety, equipment and techniques,

220 Machine Woodworking (4) CSU RPT 1

Lecture 3 hours: Lebensonery 3 hours.

Studies safe use of tools, machines and materials related to cabinermaking, Includes becture, discussion, demonstrations, evaluation and student performance in the following area: manufactured materials, fasteners, basic casework, kitchen cabinets, stock billings, joinery, integration of components, plastic laminates, and surface preparation. Instruction covers occupations, design, planning and construction rechniques.

320 Cabinetmaking and Millwork Technology (4) CSU

Lecture 2 hours: Laboratory 4 hours,

Prerequisites Industrial Technology 220.

Deals with advanced wood rechnology, planning and practice in the production of cabinetry and custom furniture making.

322 Painting and Finishing (2) CSU

Lecture I hour; laboratory 3 hours.

Studies common wood finishes and techniques of application, with practical experience in staining, filling, sealing, shellacking, varnishing, lacquering, and synthetic resins. Includes some refinishing information

420 Furniture Repair and Refinish (2) CSU

Lecture I hour, Laboratory 3 hours.

Prerequisites Industrial Technology 120 with a grade of "C" or hence.

A comprehensive study of the techniques in refinishing used and antique furnituse along with the practical skills in repairing scratches, densibuttor, veneer and structural damage.

Internet

See course listings under Office Administration

International Business

1 Introduction to International Trade (3) CSU

This course gives a comprehensive overview of international business including basic trade theory, international marketing, export/import financing, the foreign currency markets, the operation and management of multimational firms, and the cultural aspects of global trade. It emphasizes the practical application of basic international trade topics.

6 International Marketing I (3)

This course presents the challenges of marketing in the global marketplace and the most effective approaches to these challenges. It explores the top potential exports and the most promising markets through the use of corrent market data and actual case studies of international marketing companies.

18 Basics of Experting (1)

This course is designed to provide the acudent with the basic information needed for an understanding of the export process. The course reviews the most important U.S. Government import regulations and gives the student familiarity with import documentation and terminology.

19 Basics of Importing (1)

This course is designed to give the student a solid understanding of the import process, including import documentation, and U.S. Government customs regulations. The course guides the student through the process of creating a busic import business plan.

20 International Finance (2)

This course provides a perspective of finance throeies as they apply to international transactions. It covers the methods of international payment, collections, financial risks, and tax considerations. The course covers the foreign exchange markets, the basics of working capital management and capital budgeting for foreign projects.

21 The Global Business Environment (3)

A survey of the effects on international business by the cultural, political, geographical, and technological forces of the global environment. In addition, the course provides many practical guidelines to help those who are intrasted in establishing successful business relationships anywhere in the world.



72 International Management (3)

This course examines the management functions in a global contest. It describes the environment in which international managers operate, the sole of culture and its effects on managerial innes, and the challenges of communicating effectively and achieving organizational objectives in an increasingly multicultural environment.

Italian

Elementary Italian I (5) UC:CSU (CAN ITAL 2)

Lecture 5 his

Recommended: Eligibility for English 28.

Note: Students with previous knowledge of Italian should not enroll in Italian I no 2, but in a higher level. Native speakers should enroll in Italian 3.45.006

Services the fundamentals of pronunciation and the ability to understand, speak and write simple Italian. Includes basic structural aspects and incorporates basic facts on the culture, customs and geography of Italy and an introduction to Italian songs and proverbs. Corresponds to the first year of high school Italian.

Elementary Italian II (5) UC:CSU (CAN ITAL 4)

Prerequisites Italian I or one year of high school Italian, with a grade of C ar better

Recommended: Eligibility for English 28.

Note: Students with previous knowledge of Italian should not everill in Italian I or 2, but in a higher level. Native speakers should enrall in Italian 3, 4, 5, or 6

Continues to stress the fundamental abilities to understand, speak, read and write simple Italian. Continues to include basic structural aspects and expands practical convenational vocabulary and competency in using it. Continues to incorporate information on the culture and customs of Iraly, and an introduction to Italian songs and proverbs. Corresponds to the second year of high school Italian.

Intermediate Italian I (5) UC:CSU (CAN ITAL 8)

Prerequisites Italian 2 or two years of high school Italian with a grade of "C" or better

Recommendeds Eligibility for English 28.

Notes Consumers enrollment in Italian 8 is strongly recommended for nonnative speakers.

Normally offered in the Fall senester only.

Reviews the elementary structure mudied in Italian 1 and 2 and continues the grammar necessary for communication and fur comprehension of both spoken and written Italian. Promotes fluency in Italian by immersing the student in practical situations which require extensive use of the language and by building on vocabulary and related skills through them. Continues the study of Italian life, civilization and culrure and provides special amention to representative Italian literature.

Intermediate Italian II (5) UC:CSU (CAN ITAL 10)

Lecture 5 hour

Prerequisites Italian 3 or these years of high whool Italian with a grade of or herres

Note: Concurrent enrollment in Italian 8 is strongly recommended for nonnative speakers.

Normally offered in the Spring senester only.

Expands the structural concepts studied in Italian 1, 2 and 3. Develops additional vocabulary and related skills for maximum comprehension and expression. Provides greater depth in Italian literature with wider range of reading. Emphasizes discussion and analysis of the material. Continues the study of Italian life, colmre and civiliration.

Advanced Italian I (5) UC:CSU

Lecture 5 hours

Prerequisites Italian & with a goade of "C" or better.

Notes Concurrent enrollment in Italian 8 is strongly recommended for non-

Normally offered in the Spring semester only.

Introduces some of the important movements in Italian literature. It includes reading prose and poetry from representative Italian ambors and continues the study of advanced composition and grammar.

Advanced Italian II (5) UC:CSU

Preroquisites Italian 5 with a grade of "C" or better.

Notes Concurrent enrollment in Italian 8 is strongly recommended for nonmattive speakers.

Normally offered in the Spring semester only Lecture 5 hours

Concerns works of Iralian Interarum selected by students and Instructor on the basis of relevance, interest and historical impact. Emphasis is on individual study and research shared in the form of reports both oral and written. This serves as a basis for the study of advanced composition. grammar and style.

Conversational Italian (2) CSU RPT 3

Lecture 2 hours.

Prerequisites Italian 2 or equivalent with a grade of "C" or better.

Provides opportunities for practical convenation on everyday topics. current events, and cultural material, and for expansion of vocabulary according to student interest.

185 Directed Study - Italian (1) †UC:CSU RPT 2

285 Directed Study - Italian (2) TUC:CSU

385 Directed Study - Italian (3) †UC:CSU

Conference I hour per unit.

Allows students to pursue Directed Study in Italian on a contract basis under the direction of a supervising instructue.

Japanese

Elementary Japanese I (5) UC:CSU (CAN JAPN 2)

Lecture 5 hou

Recommended: Eligibility for English 28. Note: Students with previous houndedge of Japanese should not entall in Japanese I or 2, has in a higher level. Native speakers should enroll in Japanese 3 or 4.

Stresses the fundamentals of aural comprehension and pronunciation, hasic vocabulary, useful phrases and the ability to speak, sead and write simple Japanese. Includes basic facts on customs, culture and geography.

Elementary Japanese II (5) UC:CSU (CAN JAPN 4)

Leitury 5 hos

Prerequirites Japanese 1 with a goode of "C" or better

Recommended: Eligibility for English 28.

Note: Scudents with previous transledge of Japanese should not enroll in Japanese 1 or 2, hus in a higher level. Native speakers should excell in Japanese 3 or 4.

Continues the study of fundamentals of aural comprehension, basic vocabulary and the ability to speak, read and write simple Japanese. Includes orientation to customs, culture and geography.

Intermediate Japanese I (5) UC:CSU

Lecture 5 hours.

Prerequisite: Japanese Z.

Normally offered in the Fall temester only.

Continues the study of grammar and vocabulary building for conversational fluency and written composition. Begins the study of short marrative writings.

4 Intermediate Japanese II (5) UC:CSU

Lecture 5 hours.

Prerequisites Japanese 3.

Normally affered in the Fall semester only

 Continues the study of grammar and vocabulary building for conversational fluency and written composition. Communes the study of short narrative writings. Includes the study of Japanese culture.

8 Elementary Conversational Japanesa (2) CSU RPT 3

Lecture 2 hours

Prerequisites Japanese 1 with a grade of 'C' or better.

Provides opportunity for oral communication in everyday settings about current events, general cultural materials and individual personal interests.

27 Cultural Awareness Through Advanced Conversation (3) UC:CSU

Lecture 3 hours.

Prerequisites Japanese 3.

Develops oral facility and cultural awareness, emphasizing speaking and understanding Japanese in everyday situations common to life in Japan. Good grasp of grammar is a percognisise. Prepares student to work in Japanese company or related business, or to live in Japan.

185 Directed Study - Japanese (1) TUC:CSU RPT 3

Conference I hour per unit

Allows students to pursue Directed Study in Japanese on a contract basis under the direction of a supervising instructor.

Journalism

100 Social Values in Mass Communication (3) UC:CSU (CAN JOUR 4)

Lecture 3 hours.

A general interest survey and evaluation of the mass media in economic, historical, political, psychological and social terms. Focus is to help the media consumer better understand today's mass communications: newspapers, radio, relevision, motion pictures, magazines, advertising and public relations. Course content discusses relationships, ethics, rights and responsibilities of media in today's society.

101 Collecting and Writing News (3) CSU (CAN JOUR 2)

Lecture 3 bours

Recommended: Concurrent enrollment in Jeannalism 100 for all journalism

Streams introction and practice in news gathering with particular emphasis on documentation, research and news writing. Adherence to professional writing style: legal and orbical aspects of the profession is included. Required of all journalism majors.

108 Article Writing (3) CSU

Lecture & boars

Offers instruction in the writing of material for a magazine, including articles, editorials, and reviews suitable for publication; includes practice in editing and the use of illustrative materials.

202 Advanced Newswriting (3) CSU

Lecture 3 bours

Prerequisites fournalism 101 with a grade of "C" or better.

Recommended: Concurrent enrollment in fournalism 217 for praviation majors.

Provides the student with principles and practice in writing specialized types of newspaper stories and increases mastery of fundamental reporting techniques. Interpretative writing skills, editorial writing, and feature writing are included. Required of all journalism majors.

216 Copyreading and Headline Writing (3) CSU

Lecture 2 hours, laboratory 3 hours.

Prerequisites fournalism 101 with a grade of "C" or better.

Recommended: Concurrent enrollment in fournalism 202 for fournalism.

majors.

Offers study and practice in analysis of structure and effectiveness of serious materials, rewriting, correction of errors, prooficading, beadline sering, news and picture evaluation, and page design. Opportunity is provided to work with the staff on the campus newspaper. Required of all journalism majors.

217 Publication Laboratory (2) CSU RPT 3

Laboratory 6 hours.

Perrequisites Journalism 101 with a grade "C" or better, soncurrent smallment in Journalism 202 or 218 or Photography 21.

Stresses constructive conicism of students in writing style and news evaluation. Publication production plans are developed. The instruction is directed by newspaper adviser, editor and staff members.

218 Practical Editing (3) CSU RPT 3

Lecture 1 hour, superstand activity 6 hours.

Prerequisites Journalism 202 with a grade of "C" or better.

Recommended: Price or concurrent enrollment in Journalism 216 for Journalism matters.

Provides practical instruction and practice in writing and editing the campus newspaper. Editions are evaluated in regularly scheduled class meetings.

219 Techniques for Staff Editors (1) CSU RPT 2

Laboratory 3 bours.

Prerequisites Journalism 101 with a goode of "C" or better, and concurrent corollisms in Journalism 202 or 218 or Photography 21.

Offers instruction for campus newspaper editors in editorial writing and analysis of editorial problems. Emphasis is placed on formulating editorial policy.

220 Magazine Editing (3) CSU RPT 3

Prerequisites fournation 101 with a grade of "C" or better and concurrent enrollment in Journalism 202 or 218 or Photography 21. Locture 2 hours, laboratory 3 hours.

Presents the theory and practice of writing and editing a magazine. Artistic design, principles of harmony and unity, and creativity in layerer are stressed. Writing and editing of copy, designing pages, selecting phonographs and other illustrations and design materials, preparing them for production; arranging production schedules, and other aspects of publishing are included.

221 News Photography (4) CSU RPT 3

Lecture 2 hours: laboratory 6 hours.

Same as Photography 21. Credit not given for buth courses.

Prerequisite: Photography 11 and 20 with a grade of "C" or better.

Gives practical experience in the taking and processing of news and feature pictures, emphasizing the use of cameras normally employed in photojournalism. Affords students the opportunity to take, develop, and print pictures for the college newspaper and magazine.

185 Directed Study - Journalism (1) CSU RPT 2

285 Directed Study - Journalism (2) CSU

385 Directed Study - Journalism (3) CSU

Conference I have per unit.

Allows students to pursue Directed Study in Journalism on a contract hasis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Journalism See Cooperative Work Experience Education



Law

For additional law courses, see Business and Sociology.

3 Civil Rights and the Law (3) UC:CSU

Lecture 3 hours

Offen comparative and analytical study of the law and related problems concerning Civil Rights. Due process of law fronteen of expression, freedom of religion, racial equality, and democratic processes are the topics under consideration, with emphasis on recent court decisions and international trends.

Learning Skills

Note: Open Entry/Open Exit and Credit/No-Credit courses.

1 Reading (3) (NDA) RPT 3

Laboratory 9 hours.

Individualized, self-paced seading semediation for ESL students and/or native speakers. Program ranges from learning to sead in improving comprehension and interpretation. Tutors, computer and audio-causeste programs supplement learning.

2 English Fundamentals (3) (NDA) RPT 3

Laboratory 9 hours.

Recommended: Concurrent confinent in Learning Skills 7. Individualised, self-paced work on punctuation, sentence structure and correctness, supplicatemental by computer-animed instruction.

5 English As A Second Language: Fundamentals (1) (NDA) Laboratory 2 Journ

Small group workshops and tutorial practice in largely oral English communication. Emphasis on vocabulary building and simple grammar structures. Students are encouraged to generate relevant English speech and writing.

7 Basic Composition (3) (NDA)

Laboratory 9 hours.

Small group workshop (4-10 people) in all types of writing, from journal to research paper. ESL and native-speaking underes participate in exercises, writings, peer response, as well as work individually at their own pace. Tutors, computer programs supplement workshop activities. Preparation for English 84-87 or English 21.

10 Mathematics Fundamentals (3) RPT 3 (NDA)

Laboratory 5 hours

Individualized, self-paced instruction in math from whole number operations to algebra and geometry. Tutorial and computerized math programs provide review, temediation and/or practice.

185 Directed Study - Learning Skills (1) (NDA) RPT 2

Conference I hour per unit.

Credit Limits A maximum of 3 sons Directed Study in Learning Skills may be sales for could

Allows studeors to pursue Directed Study in Learning Skills on a contract basis under the direction of a supervising instructor.

Library Science

101 Library Research Methods (1) CSU

Lecture 1 hour

Knowledge and functional capability in written and spoken English are necessary for the successful completion of this course. When corolling in this class, eligibility for English 28 or a more advanced course is recommended.

This course reaches the student how to make independent use of library resources for maximum educational and life-long personal benefit. Standard research techniques are emphasized and specialized information sources are examined.

102 Internet Research Methods (1) CSU

Lecense I town, laboratory 1.5 hours per week.
Recommended: Knowledge of Windows: Basic keyboarding skills.

This course will focus on how to find and evaluate information and resource materials on the Interest, using a variety of applications (World Wide Web, Listeres, Usines). Principles of information access, development of search stranges, evaluation criteria and processes, and specific search tools will be covered. Issues regarding intellectual property, criterials, and online publishing will be discussed.

Life Science

Life Science courses are listed under the headings of

Anatomy Biology Microbiology Oceanography Physiology

Linguistics

Introduction to Language and Linguistics (3) UC:CSU Lector 3 hours.

Same as Anthropology 104. Credit not given for both courses.

This introductory course in Linguistics surveys the great variety of ways humans communicate both verbally and nonverbally. Focuses on the structure, function, and history of language, with selections on the sociology and psychology of language, language learning, and the origins and evolution of language.

Management

2 Organization and Management Theory (3) CSU

Lecture 3 hours.

Uses the case method to study problems in the organization and management of husiness. Emphasizes correlation of operating functions, appearing husiness conditions, sales, procurement, personnel, financial policies and facilities.

6 Public Relations (3) CSU RPT 1

Lecture 3 hours.

Covers essentials for organizing and operating a public relations program. Includes study of the relations with the community, commons, stock holders and nives media. Evaluates communication techniques used to improve public relations and create a favorable public image.

13 Small Business Management I (3) CSU

Lecture 3 hours

Presents a systematic approach to successful small humans operation.

Covers personnel evaluation, pre-ownership preparation, management and leadership, financing, location, taxation, records, employees, purchasing, advertising, sales and credit. Emphasizes adequate planning and preparation for success.

31 Human Relations for Employees (3) CSU

Lexture 3 hours

Covers the practical application of psychological and sociological principles to the study of human relation in business and industry. Emphasizes case studies.

33 Personnel Management (3) CSU

Lecture 3 hours

Consists of a critical examination of the principles, methods, and procedures related to the effective utilization of human resources in organizations. Includes the management of employment recruiting, serving, selection and placement, job evaluation, wage and salary administration, labor relations and communication; performance evaluation; protonotion and transfer; accident prevention; labor law and legislation; benefits and services; discipline, motivation and morale-

Cooperative Work Experience Education - Business

See Cooperation Work Experience Education.

Marketing

1 Principles of Selling (3) CSU

Levaure 3 hours.

This course emphasines the principles used in persuavive communication. Commune buying behavior, presentations, and closing are covered. The course is designed to help students currently involved in takes as well as those seeking to improve their communication skills. Sales presentations, videotapes and case studies are used.

11 Fundamentals of Advertising (3) CSU

Lecture 3 hour

The student it given a working knowledge of advertising a place in the American economy. The fundamentals of advertising media, advertising agencies, consumer behavior, media strategy, the campaign, sales promocson, and public relations are all awered.

21 Principles of Marketing (3) CSU

Lecture & Lines

This course introduces students to various activities in the field of marketing. It provides a broad understanding of the principles involved in the distribution of commodities from the producer to the user or consumer. It construct market, communication, packaging and heards, pricing, wholesaling, retailing, sales promotion, personal selling and international marketing. Presentations, case studies and video tapes are used.

31 Retail Merchandising (3) CSU

Lecture 3 hours.

Offreed Fall seminters only.

Covers the retail operation in total including a study of store location, store layour, store organization, merchandise buying, pricing, stock planning and retail sales promotion. Personnel duties and responsibilities are also studied including the work of the department manager, store buyer, merchandise manager, publicity director, store superintendent, and the store competioller.

Cooperative Work Experience Education - Business

See Cooperative Work Experience Education.

Mathematics

MATHEMATICS PLACEMENT TEST:

All students who have not completed a college mathematics course must take an appropriate Mathematics Placement Test at the Pierce College Assessment Center (Campus Center). Contact the Assessment Center at (BH) 719-6499 for an appointment and sample tests. Review is essential because the test cannot be taken again for sex months.

Placement term are given at four levels: Algebra, Readiness, Elementary Algebra, Insermediate Algebra, and Precalculus. Upon completing the test, students are advised of their recommended placement and given an authorization to ensull in that course. Students serking authorization to ensull in a course other than that recommended by the assessment sest must obtain enrollment authorization from a Mathematics Department advisor, if they have satisfied the prorequisite.

Indicated prerequisites for mathematics courses are not waived on the basis of any assessment test scores.

Mathematics Laboratory for Peer Tutoring

Open to any regularly enrolled student in Pierce College. Mathematics Laboratory is located in Math 1413, 9 a.m. - 2 p.m., Monday - Friday.

105 Arithmetic for College Students (3) (NDA)

Lecture & house.

Reviews the arithmetic essential in college and business. Topics include fractions, decimals, percent, and measurement. The course emphasizes problem solving techniques that are useful in peacrical situations.

110 Introduction to Algebraic Concepts (5) (NDA)

Lecrure 5 hours.

Discusses abstract ideas necessary to understanding algebra and reviews selected topics of arithmetic relevant to algebra. Introduces fundamental notions of algebra including signed numbers, simple equations, and modeling. Includes hands-on laboratories and group work instruction to study skills.

112 Pre-Algebra (3) (NDA)

Lecture & hours.

Review of selected stopics in arithmetic, including operations on fractions, ratio and proportion, rounding and estimating, geometric formulas. Introduction to algebra, including operations on signed numbers, order of operations and the distributive law, simple equations and modeling.



115 Elementary Algebra (5)

Lecrure 5 hours

Prerequisites A grade of "C" or better in Mathematics 110 or 112 or a untifactory score on the Algebra Readiness Placement test.

Includes operations with algebraic expressions, solutions of linear equations and inequalities, systems of linear equations, quadratic equations, relations and functions and their graphs. No credit given for students who have completed Mathematics 116.

116 Algebra Review (3) CSU

Lecture 3 hours.

Prerequisites One year of high school algebra or equivalent.

Reviews the skills of elementary algebra. This course is primarily concerned with manipulative skills, using topics in elementary algebra. No credit given for students who have received credit for Mathematics 115.

119 Introduction to Mathematical Methods (5)

Lecture 5 hours

Prerequisite: A grade of 'C' or better in Mathematics 110 or 112 or a satisfactory wore on the Algebra Readiness Placement test.

A orchaology-enhanced course that promotes understanding of fundamental algebraic concepts in realistic settings. Development and critique of simple mathematical models, including linear, quadratic, exponential, and rational functions. Fulfills math competency for AA degree, but does not serve as prerequisite to higher level math courses.

120 Plane Geometry (5)

Lecture 5 hours

Prerequisite: Mashematics 115** or a attifactory score on the Intermediate Algebra Placement Test, and equivalent high whool preparation.

Covers an introduction to logic and the construction of a formal proof, the study of plane figures such as triangles, parallelograms and other polygons, and circles. Construction methods with compan and straight edge, computations for area and volume.

125 Intermediate Algebra (5)

Lecture 5 hours.

Prerequisites Mashematics 215*** with a grade of "C" or better, or equivalent high whood preparation and a satisfactory were on the Elementary Algebra Placement Test.

Includes study of polynomials and rational expressions, including exponents and radicals; solution of equations and inequalities; functions and their graphs; systems of equations; exponential and logarithmic functions; Gaussian elimination; sequences; and complex numbers.

135 Using the Computer for Mathematics (1)

Lecture 5 hour; Laboratory 1 hour.

Mathematics 135 is an introduction to how the student can use the computer in mathematics and science clause. The student will learn how to use a competer algebra system to do mater of the calculations he or she will excounter in mathematics classes, such as simplifying and evaluating expressions, solving equations, graphing. Cince the department is using 3 different software packages in different courses, students may appear this course as needed to learn a new package.)

145 Technical Mathematics 1 (3)

Prerequisites Mathematics 105. Lecture 3 hours.

Provides an introduction to the practical application of mathematics as needed in industry. Fractions, decimals, percentage, square and square roots, constants, solids, eve, are reversed. Emphasis is on the solution of technical problems beneficial to those engaged in an industrial trade.

146 Technical Mathematics II (3)

Lecture 3 hours

Prerequisites Mathematics 145 or high school algebra with a geode of "C" or batter.

Reviews algebraic operations. Introduction and study of fundamentals of geometry and trigonometry as related to practical industrial and technical problems.

215 Principles of Mathematics I (for Prospective Elementary School Teachers) (3) UC:CSU (CAN MATH 4)

Lecture 5 hours.

Prerequiates Mathematics 120 and 125 *** with grades of "C" or better, or equivalent high whool preparation and a satisfactory score on the Intermediate Algebra Placement Test.

Includes problem solving, sets, functions, systems of numeration and number concepts; whole numbers, integers, rational and real numbers together with their algorithms; use of manipulatives; and an introduction to computers. For students planning to reach in the elementary or junior high school.

227 Statistics (4) UC:CSU (CAN STAT 2)

Lecture 4 bours.

Prerequisite: Mathematics 125*** with a grade of "C" or better, or equivalent high school preparation and a satisfactory score on the Intermediate Algebra Placement Test.

UC Credit Limit: Credit was given for bush Statistics 1 and Mathematics 227

Discusses averages, variability, graphical techniques, probability, hypothesis testing, sampling, estimation, correlation, prediction, and linear organism. Emphasis is on the collection and analysis of data and how inferences about a population are made from a sample.

238 Calculus for Business and Social Science I (5) UC:CSU

Lecture 5 hours

Prerequisites Mathematics 125 *** with a grade of "C" or better, or equivalent high whitel preparetion and a satisfactory wave on the Intermediate Algebra Placement Test.

Recommendeds Mathematics 245.

An introduction to the study of calculus of one variable, differentiation and integration of algebraic and exponential functions, application of differential calculus to modeling and curve sketching, use of integral calculus to determine areas between curves, techniques of integration. Topics of finite mathematics may include an introduction to probability. compound interest and aumities.

240 Trigonometry (3) CSU (CAN MATH 8)

Lecture 3 hours.

Prerequisites Mathematics 120 and 125*** with goods of "C" or better, or equivalent high school preparation and a satisfactory cover on the Intermediate Algebra Placement Test.

Centers on a study of the six trigonometric functions, including a study of their graphs, inverses of the functions, solution of triangles, models for periodic phenomena, identities, conditional equations, and polar coordinates.

245 College Algebra (3) **UC:CSU (CAN MATH 10)

Lecture 3 hours.

Prerequisites Mathematics 120 and 125*** with grades of "C" or bester, or oquivalent high school preparation and a satisfactory score on the Intermediate Algebra Placement Test.

Discusses relations, functions and their graphs, marriers and determinants, theory of equations, permutations, combinations, probability, and cook; sections.

260 Precalculus (5) **UC:CSU

Lecture 5 Jones.

Prerequisites Machematics 240*** used a grade of "C" or baser, or equivalent high school preparation and a satisfactory score on the Intermediate Algebra Placement Test.

UC Credit Limits Maximum 4 union.

Develops properties of the elementary functions, including exponential, logarithmic and trigonometric functions. Graphing is stressed. Elements of analytic geometry, including conics, and discrete topics, sequences and series and induction, are developed.

261 Calculus I (5) *UC:CSU (CAN MATH 18)

Locture 5 hours

Preroquisites Mathematics 260° " unto a grade of "C" or better, or equivalent high school preparation and a satisfactory score on the Precalculus Platement Test.

Begins a sequence of three courses in calculus. Coverage includes limins, community, differentiation and some integration of algebraic and transcendental functions. Applications of the calculus include related rates, maxima and minima of functions of one variable, calculation of areas, volumes, are length and growth.

262 Calculus II (5) *UC:CSU(CAN MATH 20)

Lecture 5 hours

Prevequisite: Mathematics 263 *** with a guide of "C" or better, or a more of 3 or higher on the high school Advanced Placement Calculus AB Test.

Continues the study of calculus begun in Mathematics 263 with attention given to deflecentiation and integration of trigonometric, inverse trigonometric, logarithmic and exponential functions. Techniques of integration are treated as well as functions expressed in polar and parametric forms. Infinite series and expansion of functions into series and complete the course.

263 Calculus III (5) UC:CSU (CAN MATH 22)

Lettion 5 bours.

Prerequisite: Mathematics 262** mith a goode of "C" or better, or a ware of 3 or more on the high school Advanced Placement Calculus BC Test.

Canciludes the study of calculus begon in Mathematics 261. The concepts of the derivative and the definite integral are extended to functions of several variables in the form of paetial derivatives and multiple integrals. In addition, the theory of limits, derivatives, and integrals are extended to vector-valued functions. Topics in vector calculus such as vector fields, line integrals, divergence and curl, Green's, Stoke's, and the Divergence theorems are treated.

270 Linear Algebra (3) UC:CSU (CAN MATH 26)

Legion 3 hours

Prerequisites Mashematics 262** with a grade of "C" or better. Mashematics 263 is strongly recommended.

Covers victor spaces, linear transformations and matrices, matrix algebra, determinants, solutions of systems of equations, eigenvectors and eigenvalues.

275 Ordinary Differential Equations (3) UC:CSU(CAN MATH 24)

Prerequisite: Mathematus 263** with a grade of "C" or better.

Includes an introduction to first, second and higher order linear differential equations, operator methods, series solutions, the gammafunction, Laplace regulations rechniques. Boundary value problems, and numerical methods with an emphasis on applications.

185 Directed Study - Mathematics (1) TUC:CSU RPT 2

285 Directed Study - Mathematics (2) †UC:CSU

385 Directed Study - Mathematics (3) 1UC:CSU

Conference 2 hour per weix

Allows students to pursue Directed Study in Mathematics on a contract hairs under the direction of a supervising instructor.

*UC Credit Limite Combined with Mathematics 261 and 262 maximum 2 sources.

2 seurces.

**UC Credit Limits Combined with Mathematics 260, maximum 4 units.

***Or the equivalent course at an according of university.

Media Arts

Media Arts courses are listed separately under the following headings:
Cinema
Journalism
Photography

Public Relations

Meteorology

3 Introduction to Weather and Climate (3) UC:CSU

Lecture 3 bowes.

Same as Geography 3. Credit not given for both course. Studies the nature and causes of weather phenomena including wind,

cloude, rain, lightning, somadoes and huricanes, solar energy, composition of the atmosphere, causes of air pollution, weather modification, the impact of weather on the human environment, and introduction to climate.

4 Introductory Meteorology Laboratory (2) UC:CSU

Lecture 2 hour; laboratory 2 hours.

Prerequisites Geography 3 or Meteorology 3 or concurrent enrollment in eather course.

Stresses practical use of mereorological instruments and their observation. Practical esercises in surface observations; upper air observations; wrather codes; and seather map construction and analysis.

Normally offered in the Spring semester only.

185 Directed Study - Meteorology (1) TUC:CSU RPT 2

285 Directed Study - Meteorology (2) †UC:CSU

385 Directed Study - Meteorology (3) †UC:CSU

Conference 1 hour per unit. Prerequisites Geography 3.

Allows students to pursue Directed Study in Meteorology on a contract basis under the direction of a supervising instructor.

Microbiology

1 Introductory Microbiology (5) *UC:CSU (CAN BIOL 14)

Lecture 3 hours: laboratory 6 hours.

Note: A total of 5 units given for Microbiology 1 and 20.

Prerequisite: Biology 3 or 6 and Chemistry 51 with a goade "C" or better.

Presents fundamentals of microbiology, Includes history, survey of microbes, murphology, metabolism, genetics, sterilization and disinfection, as well as host-pathogen relationships no fundamentals of virology and immunology. Laboratory rechniques stress handling, isolating, staining, enumerating and identifying microbes. Students explore microbes in air, water, and food with particular emphasis on medical microbiology and the major eriological agents of disease.



20 General Microbiology (4) *UC:CSU

Lecture 3 hours; laboratory 3 hours

Note: A total of 5 units given for Microbiology 1 and 20.

Prerequisites Biology 3 or 6 and Chemistry 51 or equivalent with a grade of

Presents Microbiology as an investigative discipline that deals with microbial absquiry, morphology and ultrastructure, taxonomy, column requirements, metabolism, genetics and soles in the disease process. The regimen for the identification of unknown microorganisms, control, inhibitions and killing of microbes through aspect transfer, sterdination and chemotherapy, interactions of microbes with immune defense and soles of public health procedures in protecting human and animal populations from disease are also stressed.

*UC Credit Limite Combined Microbiology 1 and 20, maximum one course.

Modern Languages

Modern Language courses are listed separately under the headings of:

American Sign Language
French
Italian
Japanese
Spanish

Music

Check with the Music Department or Counseling Office for transferability of courses to fine-year institutions, and for unit limitations of courses accepted by both University of California and CSUN. All Music Majors are required to entoll in a performing ententhle each sensener (Music 501, 531, 721, 741, 745). Performance classes study different literature each semister, and musical growth in in no sense completed in a single sentence. For these erasons it is educationally sound for a student to repeat a music performance course.

101 Fundamentals of Music (3) UC:CSU

Lecture 3 hours.

This course presents basic information about music and music performance, including the rudiment of music outstion, scales, key relationships, intervals, chord contraction and common musical terms. Also, beginning levels of ear training, sight singing and keyboard techniques are introduced.

111 Music Appreciation I (3) UC:CSU

Lecture 3 hours

Provides a survey of munic by considering the development of munical adeas and their relationship to cultural life from the Middle Ages to the present. Munic limening skills are developed through lectures, limening activities, and concert attendance.

112 Music Appreciation II (3) UC:CSU

Lecruse 3 hours

Prerequisites Music 111.

Offers a continuation of Music 111, stressing the forms and styles of music common to the various historical periods.

121 Music History and Literature I (3) UC:CSU

Lecture 3 hours.

Note: Students should have some familiarity with 18th century harmonic practice.

Offernl Fall semesters.

Traces the history and development of musical thought from ascient Greece through 1750. Emphasizes exensive listening through recordings and concern. Designed primarily for music majors and those with considerable musical background.

122 Music History and Literature II (3) UC:CSU

Leave 3 hours

Note: Students should have some familiarity with I lish century harmonic practice.

Offered Spring semesters.

Studies styles and forms beginning with the great classical composers and concluding with the smoke of the present day. Designed primarily for music majors and those with some musical background.

152 Current Musical Events (1) CSU RPT 3

Laboratory 2 hours.

Attendance at local concern required.

Concurrent enrollment in Music 111 is recommended.

Sendents attend on campus concerts presented by faculty, student, and guest artists. These concerts present a wide variety of musical styles which serve to entich the student's appreciation of music.

161 Introduction to Electronic Music (3) CSU

Lecture 2 hours: Leberatory 2 hours.

In this course the study of MIDI, computer and multi-mack recording techniques culminate with the production of demo tapes. Also, the application of music acoustics to digital synthesis is raught.

181 Applied Music I (.5) UC:CSU

Lecture 1 hour

Carequisites Concurrent enrollment in a harmony class

(Mass: 201, 202, 203 or 223).

Private and small group study of the performance techniques related to the students major interament or voice.

182 Applied Music II (.5) UC:CSU

Lecture I bine.

Prerequisites Mann 181.

Continuation of Music 181.

183 Applied Music III (.5) UC:CSU

Lecture 1 hour.

Prerequisites Moore 182

Continuation of Music 182.

184 Applied Music IV (.5) UC:CSU

Lecture I house

Prerequirites Music 183.

Continuation of Music 183.

200 Introduction to Music Theory (4) UC:CSU

This course prepares music majors to qualify for Music 201 and Music 211. It presents basic information about music and music performance, including the radiments of music notation, scaler, key relationships, intervals, chord construction and common musical terms. Also, beginning levels of ear training, sight singing and keyboard techniques are introduced.

201 Harmony I (3) UC:CSU

Lecture 3 bours.

Note: Scadents near to familiar with notation, scales, internals, keys and common musical serons. Concurrent enrollment in Music 211 and a major performing enamile (Music 501, 531, 721, 741 or 745) is strongly recommended for music majors.

Concerns distonic harmony which includes a study of triads and their inversions. Introduces nonchordal tones through harmonization of simple given parts. Includes harmonic analysis.

202 Harmony II (3) UC:CSU

Lecture 3 hour

Prerequisites Music 201 and 211. Companies: Music 501, 531, 721.

Continues Music 201, including a enady of secondary trials, modulation. all forms of dominant harmony, and the sequence.

203 Harmony III (3) UC:CSU

Lecture 3 hours.

Prerequisites Music 202 and 212.

Correquisite: Music 501, 531, 721, 741, or 745.

Continues Music 202 and is primarily a study of nondominant seventh chords, the Neopolitan and augmented sixth chords and other chromatic

211 Musicianship I (2) UC:CSU

Prerequisites Music 101 or equivalent with a grade of "C" or better. Notes Students must be familiar with notation, scales, intereals, keys and communication services

Development of sight reading, dictation and keyboard skills.

212 Musicianship II (2) UC:CSU

Lecture-Performance 3 hours

Preroquinites Music 211 with a grade of "C" or better.

Continuation of Music 211.

213 Musicianship III (2) UC:CSU

Lecture-Performance 3 hours.

Prerequisites Music 212 with a grade of "C" or better.

Continuation of Music 212.

214 Musicianship IV (2) UC:CSU

Lecrum-Performance 3 hours

Prerequisites Music 213 with a grade of "C" or benes

Continuation of Music 213.

221 Counterpoint I (3) UC:CSU

Lertwee 3 hours.

Prevegulaites Music 201 and 211 with grades of "C" or better.

Covers two and three-part modal counterpoint based upon sixteenth century polyphous.

222 Counterpoint II (3) UC:CSU

Lecinos 3 hours

Prerequisites Music 201 and 211 with grades of "C" or better.

Covers two and there-part total counterpoint based upon the polyphony of the Baroque period.

Offered in the Spring semesters.

223 20th Century Compositional Techniques (3) UC:CSU

Lecture 3 hours.

Prerequisites Music 203.

Provides an apportunity for the gifted and creative student to experiment with new harmonic techniques of the 20th century. Includes an introduction to analytical techniques and principles of munical composition.

225 Basic Conducting (2) UC:CSU RPT 2

Lecture-Performance 3 how

Note: Students must be familiar with musical notation.

Concerns the basic techniques for conducting both choral and instrumental musical essembles. Explores various conducting responsibilities including reheared technique, bear patterns, curing and expressive gestures.

226 Choral Conducting (2) CSU

Lecture Performance 3 hours.

Note: Students must be familiar with musical notation.

Continues Music 225 and applies techniques to choral works mirable for school, church, and community chotal groups.

231 Orchestration and Arranging I (3) UC:CSU (CAN MUS 22)

Prerequisites Music 201.

Presents the student with an introduction to the instruments of the oochestra and band and traches how to score for them in various combinations.

232 Orchestration and Arranging II (3) UC:CSU (CAN MUS 24)

Lecture 5 hours

Prerequisites Music 231.

Communion of Music 231. Offers the student an opportunity to advance the techniques learned in Music 231.

241 Music Notation and Copying I (1) CSU

Lecture 1 hour

Presents the principles and techniques of notating and copying music.

242 Music Notation and Copying II (1) CSU

Lecture I hour

Prerequisites Music 241 with a goade of "C" or besser.

Continuation of Music 241.

243 Music Notation and Copying III (1) CSU

Lecture I hour

Continuation of Music 242.

244 Music Notation and Copying IV (1) CSU

Lecture I hour.

Continuation of Music 243.

250 Music Performance Workshop (.5) CSU RPT 3

Lecture-Performance 3 hours

Preparation and performance of musical selections. Lectures and discussions of various aspects of public performance.

251 Jazz Improvisation Workshop (.5) UC:CSU RPT 3

Lecture-Performance 3 bours

Note: Students must be able to play a jazz instrument or voice.

Presents improvisational rechniques, scale an chord structures related to jatz improvisation. Includes the application of information studies to standard jura tunes.

261 Electronic Music Workshop (3) CSU RPT 2

Lessure 2 hours: Laboratory 2 hours. Notes Students must be familiar with hasis concepts of digital synthesis through computer and MIDI applications.

Techniques introduced in Motic 161 are applied to music production and recording skills. Signal processing, mixing, SMPTE time code, DAT and traditional red-to-red recording, as well as advanced synthesis techniques are taught.

299 Music Honors (1) †UC:CSU RPT 3

Laboratory 3 hours.

Prerequisites Music 121, 122, and 203

Provides the gifted student in music an opportunity for concentrated independent study in selected areas under the direct supervision of an instructor. Presents a course of study through a series of projects designed to increase the students' knowledge of those aspects of music most pertinent to their individual interests and talento.

301 Keyboard Harmony I (1) UC:CSU

Lecture 1 how

Prerequisites Music 101 or equivalent.

Farghasis will be on work using both hands, on harmonizing anthemtype melodies and on using 3-note chords in the right hand with single has notes in the left hand. The student will also perform florid melodies using single stores in the right hand with 5-note chords in the left hand.



302 Keyboard Harmony II (1) UC:CSU

Lecture I have

Prerequisites Music 301 with a grade of "C" or better, or equivalent

This course is a constinuation of student development of keyboard skills. Emphasis will be on left hand barmonic patterns such as Alberti bass, "waltz" hais, and two part (treble and bars) harmonizations. This level is to include secondary seventh chords (and inversions), secondary dominants (and inversions), as well as transient and real modulatory exercises.

303 Keyboard Harmony III (1) UC:CSU

Lecture 1 hours

Prerequisites Music 302 with a grade of "C" or better, or equivalent.

This course is a continuation of student development of keyboard skills, using more complex piano idioero, harmonizations to include the augmented sixth chord family, the Neapolitan sixth, chromaticism, sensore key movement and relationships, as well as some early 20th Century. rechniques, such as parallelism, chords in fourths, polytonal passages, etc.

321 Elementary Piano I (2) UC:CSU

Lecrure-Performance 3 hours

This course introduces the basic rechniques and skills used to play the piano and electronic keyboard instruments. Also, music reading, scales and chord progressions are introduced along with the terminology and theory related to the mutic being studied.

322 Elementary Piano II (2) UC:CSU

Lecture-Performance 3 hours.

Neser Students muit be able to perform simple major scales, melodies wish have chemial accompanionens and two-part pieces similar to these found in Bartoh's Mikrokumus, Volume I.

Continuation of Music 321.

323 Elementary Piano III (2) UC:CSU

Locture-Performance 3 hours

Note: Scudents must be able to perfern two scase major scales, simple owledy, and accompaniment pieces such as those found in Music for Millions, Volume 17 and two-part pieces similar to those found in Baresh's Mikrokumu, Vidone 2

Communion of Music 322.

324 Elementary Piano IV (2) UC:CSU

Lecture-Performance 3 hours.

Prerequisites Afsaic 323 with a grade of "C" or better.

Continuation of Muric 323.

341 Intermediate Piano (2) UC:CSU RPT 3

Lecture-Performance 3 hours.

Prerequisites Elementary Pianu.

Continuation of Minic 324. Introduces compositions arening scales, chords, arpeggios and harmonic structure of music in an interpretise manner. Emphasizes style and interpretation,

351 Piano Ensemble (1) UC:CSU RPT 3

Laboratory 2 hours

Prerequisites Music 341.

Provides the opportunity for ensemble experience through the performance of literature for two pianos, four and eight hands. Particular emphasis on style, interpretation and the development of sight reading.

411 Elementary Voice I (2) UC:CSU

Lecture-Performance 3 hours

Concentrates on general, basic fundamentals of singing, using vocal exercises, and simple songs. Emphasis on developing an understanding of the singing voice, the body as a minical instrument, and the vocal potential of each student. Songs used implement and illustrate vocal growth and development

412 Elementary Voice II (2) UC:CSU

Lecture-Performance 3 hours.

Nates Traditional voice students must be familiar with the basic fundamentals of singing and the art song styles. Pop soure students must be fundamentals of singing and microphone technique.

Continuation of Music 411.

413 Elementary Voice III (2) UC:CSU

Lecture-Performance 3 hours.

Continuation of Music 412.

414 Elementary Voice IV (2) UC:CSU

Lecture-Performance 3 hours.

Continuation of Music 413.

441 Song Repertoire (2) UC:CSU RPT 3

Lecture 1 hours laboratory 2 hours.

Prerequisites Music 414.

Offers the voice student the opportunity to study and perform a varied repertoire selected from musicals, art songs and operas.

501 College Cheir (.5) UC:CSU RPT 3

Laboratory 3 hours

Open to all students, regerdless of vocal experience.

Experience the joy of singing! In this class you will learn basic singing techniques and music reading skills through the mady, preparation and performance of standard choral literature and popular music.

531 Philharmonic Choir (.5) UC:CSU RPT 3

Laboratory 3 hours.

Notes Some familiarity with choral repressive and proper vocal technique to required

Study and performance of choral literature from all stylistic periods, including popular music. Emphasis, however, is placed upon major choral

561 Chamber Chorale (.5) UC:CSU RPT 3

Lahousery 3 hours

Prerequirites Audition

Concerns the study and performance of musical Increasure of small chamber choral groups from the stateenth century to the present.

571 Jazz Choir (.5) CSU RPT 3

Lecture Performence & boun. Prerequisites Audition.

Offers practical experience in singing jazz, folk and took music in small ensemble. Recording studio techniques will be explored.

601 Brass Instrument Instruction I (2) UC:CSU

Lecture-Performance 3 hours.

Offers instruction in trumpet, trombone, tubs and French horn. Recommended for students interested in learning to play a brass instrument, to write and arrange for brass instruments, or sequiring the skills to reach others to play these instruments.

602 Brass Instrument Instruction II (2) UC:CSU

Lecture-Performance 3 hours.

Continuation of Music 601.

603 Brass Instrument Instruction III (2) UC:CSU

Lecture-Performance 3 hours.

Continuation of Music 602.

604 Brass Instrument Instruction IV (2) UC:CSU

Lecture-Performance 3 hours

Continuation of Music 603.

611 String Instrument Instruction I (2) UC:CSU

Lecture-Performance 3 hours

Offers instruction in violin, viola, cello and bass. Recommended for students interested in learning to play a string instrument, to write and arrange for string instruments, or acquiring the skills in seach others to play these instruments.

612 String Instrument Instruction II (2) UC:CSU

Lecture-Performance 3 hours.

Continuation of Music 611.

613 String Instrument Instruction III (2) UC:CSU

Lecture-Performance 3 hours. Continuation of Music 612.

614 String Instrument Instruction IV (2) UC:CSU

Lecture-Performance 3 heart. Communion of Music 613.

621 Woodwind Instrument Instruction I (2) UC:CSU

Lecture-Performance 3 hours.

Offers instruction in flute, obor, clarinet, bassoon and saxaphone. Recommended for students interested in learning to play a woodwind instrument, to write and arrange for woodwind instruments, or acquiring the skills to teach others to play these instruments.

622 Woodwind Instrument Instruction II (2) UC:CSU

Lecture-Performance 3 hours. Continuation of Music 621.

623 Woodwind Instrument Instruction III (2) UC:CSU

Lecture-Performance 3 hours. Continuation of Music 622.

624 Woodwind Instrument Instruction IV (2) UC:CSU

Lecture-Performance 3 hours. Continuation of Music 623

650 Beginning Guitar (2) UC:CSU

Lecture-Performance 3 hours.

Concerns beginning guitar skills with emphasis on learning to read music on the guitar, up to the fifth first fise the left hand. Right hand technique will be finger, and pick oriented; and the course is a perfect introduction to either classical, commercial, or folk guitar playing.

651 Classical Guitar I (2) UC:CSU

Lecture-Performance 3 hours.

Note: Familiarity with music sostation and have guizar rechnique is required.

Provides basic instruction in Classical Guitar playing at the beginning level. Includes appropriate esercises to develop sechnical facility, material for sight-seading, study of basic chords, and repertoire.

652 Classical Guitar II (2) UC:CSU

Lecture-Performance 3 hours, Continuation of Music 651.

653 Classical Guitar III (2) UC:CSU

Lecture-Performance 3 hours. Continuation of Music 652.

654 Classical Guitar IV (2) UC:CSU

Lecture-Performance 3 hours, Continuation of Music 653.

661 Commercial Guitar I (2) CSU

Lecture 1 hour; laboratory 2 hours.

Note: Familiarity with radimentary shord symbols and have guitar technique is required.

Designed to give the guitarist experience in playing melody, accompanishes and performing songs with simultaneous chords and melody. Styles covered include jazz, jazz-fusion, rock and bossz-nova. Techniques include scales and night reading up to the fifth position in large up to three flars and three sharps.

662 Commercial Guitar II (2) CSU

Lecture 1 hour: Inhoratory 2 hours.

Prerequisites Music 661 or appropriate prisate instruction.

Note: Music popers own instrument.

Continuation of Music 661.

663 Commercial Guitar III (2) CSU

Lecture 1 beas: Inforatory 2 bears.

Prerequisites Music 662 or appropriate private instruction.

Notes Music pount our instrument.

Continuation of Music 662.

664 Commercial Guitar IV (2) CSU

Lecture 1 hour, laboratory 2 hours.

Prerequisites Music 663 or appropriate private interaction.

Note: Must power own interament.

Continuation of Music 663.

705 Chamber Music (.5) UC:CSU RPT 3

Lecture-Performance 3 hours.

Provides experience in typical chamber music and chamber orchesera combinations. Open to qualified instrumentalists, including planists, string and wind instrument players.

721 Orchestra (1) UC:CSU RPT 3

Licture-Performance 4 hours.

Concerns reading and detailed study of the standard symphonic repertoire. Provides experience in interpreting music of various styles and performing for college functions.

741 Band (1) UC:CSU RPT 3

Lecture-Performance 4 hours. Nates Ability to play a band instrument required.

Includes the study and performance of standard works for instrumental wind ensembles.

745 Symphonic Band (.5) UC:CSU RPT 3

Lectury-Performance 6 hours.

Note: Ability to play a wind or percussion instrument required.

Explores contemporary and traditional band literature with an emphasis upon performance-related experiences. Provides opportunities for soloperformances, section subcartals, and large ensemble schearsals and performances.

755 Brass Ensemble (.5) UC:CSU RPT 3

Lecture-Performance 3 hours

Provides rehearsal and performance experiences that utilize a wide variety of beam literature.

765 Percussion Ensemble (.5) UC:CSU RPT 3

Laboratory 3 hours.

Provides the student with the opportunity to learn a wide variety of percussion ensemble literature including both symphonic and commercial styles. Public performances will be given.

781 Studio Jazz Band (.5) CSU RPT 3

Lecture-Performance 4 hosies.

Nate: Ability to play a jazz instrument required.

Offers practical experience playing in a large jazz band. The reading and schearing of standard musical arrangements will emphasize intonation, rhythmic accuracy, artistic expression, and improvination.

911-941

Cooperative Work Experience Education - Music

See Cooperative Work Experience Education

*UC Credit Limits Asy or all courses combined, maximum 12 units.



Natural Resources Management

See Agriculture course listings 900-999.

Numerical Control

See listing under Industrial Technology - Numerical Control.

Nursing

See "Nursing: Associate in Arts Degree" for General Education prerequisites, page 62.

400 Fundamentals of Nursing (4) CSU

Lecture 2 hours: Laboratory 6 hours.

Prerequisite: Approval to enter the Nursing Program. Must show proof of current Basic Life Support card (CPR-BLS "C").

Introduces the student to the nursing process and Gordon's Functional Health Patterns as they relate to the care of the adult client. Basic clinical skills and related theory are presented. Encompanes physical, psychosocial, cultural, developmental, and legal aspects as related to numing. Includes clinical experience.

401 Client Care Seminar I (1) CSU

Lecture 2 January

Prerequisites Euroliment in Nursing Programs

An elective, but seningly recommended instructor guided countries. Emphasizes nursing process and Gordon's Functional Health Patterns to enhance planning of nursing care and performance of nursing skills. Selected client care experiences and marsing skills will be used

402 Preparation for Drug Therapy (1) CSU

Prerequisites Acceptance into the Nursing Program.

Introduces basic knowledge and skills required for safe and effective drug therapy. Includes mathematics used in calculation of drug douge. Specific drug classifications are discussed in conjunction with Gordon's Functional Health Patterns. Nursing process serves as a framework in the application of coment to client care

403 Medical-Surgical Nursing I (5) CSU

Lecture 2 hours: Laboratory 9 hours.
Prerequialtes Nursing 400, 402, 407 and 408 (or their equivalent) with a grade of "C" or better

Introduces theory and concepts central to the practice of medical-surgical nursing, emphasizing short-term acute health problems and perioperative care. Encompanies physical, psychosocial, cultural, developmental, and legal aspects. Continues to expand knowledge of functional health patterns and the use of nursing process. Clinical experience is focused on multiple primary care assignments.

404 Maternity Nursing (4) CSU

Lecture 2 hours: Laboratory & hours,

Prerequisite: Completion of the first year of the Nutting Program or its equivalent or BRN referral.

Studies the reproductive process and in effect on health and family life within the framework of the nursing process and Gordon's Functional Health Patterns. Covers the normal maternity cycle, common problems. and the newborn, Encompasses psychosocial, cultural, developmental, legal, and eshical aspects of maternity care. Women's health care is discussed. Includes clinical experience.

405 Psychiatric Nursing (4) CSU

Lecture 2 hours: Laboratory 6 hours.

Prerequisites Completion of the first semester of the Nursing Program or in equivalent or BRN referral.

Introduces the concepts of psychiatric nursing utilizing Gordon's Functional Health Patterns and the nursing process. Presents current theory and practice in the care of the mentally ill. Psychotocial, physical, legal and illness stressors are discussed as they relate to the individual and family. A variety of clinical experiences are provided.

406 Medical-Surgical Nursing II (5) CSU

Lecture 2 hours: Laboratory 9 hours

Prerequisite: Complexion of the first year of the Nursing Program for in

Builds upon previously learned concepts of medical-surgical nursing. Emphasises the chronically-ill adult and genutric client with concurrent acore health problems. Utilizer the Functional Health Patterns at a basis for assessment and implementation of the nursing process. Clinical experiences include multiple primary care assignments and introduces management of clients in small groups in the source care setting.

407 Gerontic Nursing (3) CSU

Lecture I hour: laboratory 6 hours.

Prerequisites Approval to enter the Nutting Program. Must these proof of current Basic Life Suppers and (CPR-BLSC).

Introduces the geomic client including physical, psychological, social, spiritual, and intellectual aspects. Emphasizes interrelatedness of Gordon's Functional Health Patterns and nursing process, growth and development, and health problems in the aging client. Includes clinical experience

408 Mental Health Nursing (1) CSU

Prerequisites Acceptance into the Nursing Program.

Facilitates assessment and promotion of mental health perspectives across the life span. Introduces the concepts of wellness and holistic health care while focusing on community mental health. Emphasizes numing process and identification of behaviors which represent functional and dysfunctional health patterns as defined by Gordon. Examines multiple factors influencing mental health such as biological, sociocultural, or psychological components.

414 Medical-Surgical Nursing III (5) CSU

Lecture 2 hours: Laboratory 9 hours

Prerequisites Completion of the third semister of the Nursing Program for in

Advanced theories and concepts of adult medical surgical nursing with emphasis on complex and acute health problems. Includes physical, psychosocial, cultural, developmental, and legal aspects. Provides in-depth clinical experience utilizing functional health patterns and soursing process. Screens management experience focusing on the staff name role.

415 Pediatric Nursing (4) CSU

Lecture 2 hours: laboratory 6 hours.

Prerequisites Completion of the third temester of the Nursing Program (or str equivalent or BRN referral)

Discusses concepts of Pediatric Norsing within the framework of Gordon's Functional Health Patterns and the nursing process. Emphasis is placed upon health problems and the pediatric client's unique reaction to illness. Topics include growth and development from infancy through adolescence and adaptation of numing sechniques for the pediatric client/family. Includes clinical experience.

417 Client Care Seminar IV (1) CSU

Lecture I hour

Prerequisites Concurrent surallment in the fourth semester of the Naturag Program.

An elective, but strongly recummended instructor guided course for sensor nursing students. Uses tutorial study, independent learning, and nursing skills practice to provide entichment in advanced clinical application of nursing process and Gordon's functional health patterns.

424 Client Care Seminar II (1)

Leciuse I house

Prerequiates Concurrent enrollment in the second semester of the Nursing programs.

An elective bur strongly recommended instructor guided course which emphasizes nursing process and Gordon's Functional Health Panerus to enhance planning of nursing care. Provides opportunities for client teaching in tienulated role-playing experiences. Selected nursing skills practice will be provided.

441 History, Trends, and Issues of Nursing (1) CSU

Letture I bour.

Preveguiates Concurrent enrollment in the fourth semester of the Naming Program.

Examines current and relevant nursing issues within the context of historical development of organized training. Includes legal rights and responsibilities and economic and educational issues as they affect the emergence of the modern starse. Discusses the starse's role as a contributing member of the discipline and the community

442 Role Transition to RN (1) CSU

Lecture I house

Prerequisites Approval to enter the National Program. Must currently be Licensed Vicational Nurse, foreign nurse graduate or a trainfer nursing student.

Orients the advanced placement numing student to the College and to the Numing Program. Discusses the roles and responsibilities of the registered nume. Interaction focuses upon the application of numing process, its components, and the use of Gordon's Functional Health Pattern for assessment. Includes development of case plans for clients in a watery of settings.

444 Client Care Seminar III (1) CSU

Lecture I have

Prerequisites Concurrent enrullment in the third tenester of the Nursing Programs.

An elective, but strongly recommended instructor guided course to facilitate enrichment, natorial study, the utilization of independent learning, and nursing skills peactice.

450 Clinical Nursing Preceptorship (3)

Laboratory & hours

Prerequisites Completion of the second or third senanter of the Nursing Program or the equivalent.

Elective noting course to enhance student skills and knowledge, improve clinical performance, and increase confidence in the work setting. An intensive clinical especience in which the student is paired with a staff name in an acute care facility. Clinical topics include management and communication.

463 Introduction to Nursing (.5)

Lecture 5 bour

Designed for the premaring major or student considering Nursing as a career. An introduction to nursing and the Nursing Program at L. A. Pierce College.

185 Directed Study - Nursing (1)

285 Directed Study - Nursing (2)

385 Directed Study - Nursing (3)

Conference I hour per unit.

Allows students to pursue Directed Study in Narsing under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Nursing

Ser Coopenative Work Experience Education

Oceanography

1 Introduction to Oceanography (3) UC:CSU

Introduces the student to the general field of oceanography, including a study of the features of the sea floor, the chemical and physical properties of sea water, currents, tides, waves and their effects on marine organisms. Special reference will be made to the Southern California environment and problems of man and the sea.

2 Introduction to Marine Biology (3) *UC:CSU

Lecture 2 hours: laboratory 3 bours.

This course is designed to be taught at a marine biology field studies and maximizes the opportunities afforded by field study. The lecture, laboratory and field study are integrated to examine the biology of marine plants and animals. Emphasis is placed on the interactions among species which determine their distributions and the organization of communities.

10 Physical Oceanography Laboratory (2) UC:CSU

Prerequisites Occasiography 1 or concurrent enrollment. Lecture 1 hour; laboratory 2 hours. May be offered as an hours section.

Offers an opportunity to learn skills and techniques of the oceanographer through laboratory, heach and dockaide field work, and work cruises abused a testarch vessel. Includes the study of nautical charts, instrumentation, and oceanographic processes such as sedimentation, effects of winds, currents, tides, and determination of water quality. Students are required to arteral three field trips.

12 Lectures in Marine Biology (3) *UC:CSU

Lecture 3 hours.

Notes Students interested in earning laboratory credit are encouraged to enroll concurrently in Oceanography 14.

Introduces students to the biology of the marine environment. Included is a survey of marine organisms examining their structure/morphology, feeding habots, reproduction, adaptations and ecology. Special emphasis is placed on the ecology/interrelationships of organisms in the marine environment including kelp forests, cital reels, the deep sea, rocky interribal none and werlands communities. Man's influence on the marine environment is explored by study of fisheries management, politicion issues and discussion of current events.

14 Marine Biology Laboratory (2) *UC:CSU

Prerequisites Occasiography 12 or concurrent enrollment.

Introduces student to the intertidal and nearshore marine communities of southern California. The biology of marine plaem and animals is examined with emphasis on morphology, classification and ecology of major groups. A strong field emphasis includes field studies of the rocky intertidal sone, much and mudflat wetlands and sandy beach communities. Students participate in cruises on a research wester requiring "hands-on" participation in all aspects of oceanographic sampling. Oceanography 12 must be completed previously or taken concurrently.



185 Directed Study - Oceanography (1) 1UC:CSU RPT 2

285 Directed Study - Oceanography (2) †UC:CSU

385 Directed Study - Oceanography (3) †UC:CSU

Conference I hour per unit

Allows madents to pursue Directed Study in Oceanography on a contract hasis under the disection of a supervising instructor.

*UC Credit Limits Oceanography 2, 12, and 14 combined, maximum 5

Office Administration

Typewriting/Keyboarding I (3)

Lecture 2 hours; laboratory 3 hours

Develops fundamental typewriting skills on the computer. Permits students to achieve a typing speed of at least 30 gross words a minute for 3 minutes with no more than 3 errors.

Typewriting/Keyboarding II (3) CSU

Lecture 2 hours, laboratory 3 hours.

Prerequisite: Office Administration 1 or 9 with a grade of C or better.

Develops speed and accuracy in typing on the computer as well as training in letter placement, manuscripts, and tabulations. Permits students to achieve a typing speed of at least 45 words a minute for 5 minutes with no more than 5 errors. Sendents should entail in Office Administration 9 if they do not meet the acquirements for admission to Office Administration 2. Course mit open to students who have credit for 4 semesters of typewriting in any other school.

Typewriting/Keyboarding Improvement (1) RPT 1

Prerequisites Office Administration 1 with a grade of 'C' or better

Improves typing sechniques, speed, and accuracy through timed writings, corrective drills, and production problems. Students may enroll for two semesters, but the semesters may not be consecutive. This course may be taken concurrently with Office Administration 2 if the student needs additional speed and/or accuracy building.

23 Legal Secretarial Procedures I (5)

Preroquisites: Office Administration 2 and 71. Offered in the Fall semester mely.

Teaches the spellings and meanings of approximately 400 legal words. Offices training in the preparation of personal injury, probute, and dissolution cases. Teaches office procedures in court filings and traches skill in transcribing legal materials using transcribing machines.

Legal Secretarial Procedures II (5)

Prerequisites Office Administration 23. Offered in the Spring sewester ouls.

Offers craining in the preparation of landlord and tenant, corporation, and criminal cases. Simulates on the job training with emphasis on working under pressure and on decision making. Commues to develop legal vocabulary and speed in transcribing legal pleadings.

Business English (3)

Lecture 3 In

Prerequisites Students must be eligible for English 21. Concurrent enrollment in Office Administration 34 is recommended.

Develops compenency in the fundamentals and mechanics of connect English usage, including grammar, punctuation, capitalization, number myle, sentence structure, and written expression. Emphastres appropriate methods of expression through sentence construction, paragraph development, and functional composition.

32 Business Communications (3) CSU

Prerequisites Office Administration 31 or English 28 with a grade

Complete communications skills course for practical business applications. Senses problem-solving approach in composition of business memoranda, letters, reports, employment communications, and other documents. Also provides opportunity to improve speaking and listening skills.

Business Vocabulary and Spelling (2)

Provides students the opportunity to improve their spelling ability and enrich their vocabulary. Emphasizes the habit of using the dictionary.

Word Processing: Keyboarding and Operations (3) RPT 2 Lecture 2 hours: laboratory 3 hours.

Prepares students to become proficient in Microsoft Word using an IBM compatible microcomputer. Students will learn beginning and advanced functions and apply their skills and knowledge to a wide variety of simple and complex documents, such as letters and memorandums, columnar tables, sext tables, manuscripes, and mailing list documents. Knowledge of typewriting and good English skills will be beneficial.

Career Skills for the Workplace 2000 (3)

Lecture 3 hours, Lebenstory 2 hours

Note: Course may be presented in short-term modules - OASS A. OASS B.

Course focuses on the important skills needed to ourvive in today's work force. The skills roday are relephone techniques, records management, and job search techniques.

64 Office Administration Laboratory (1) RPT 2

Laboratory 2 hours.

Prerequisites Concurrent encollment in ar complexion of Office Administration 39, 75, 78, 79, 82, 83, 84, 85, or 86.

This laboratory course is designed to reinforce the lectures presented in all microcomputer Office Administration classes. It gives needed practice to apply fundamental principles to the preparation of various types of documents used in business and nonluniness classes,

70 Human Relations in the Office (3)

Lecture 3 hours

Prerequisites Office Administration 31 and 34.

Designed to help develop an understanding of one's self; how one relates to others in terms of family, social, business, or work situations; and how one microares, manages, or supervises others. Introduces students to assertion, problem-solving, and decision-making techniques. Auguston students with a variety of self-help agencies and ounside reference materials.

Offered in the Spring semester only.

71 Universal Transcription (3) CSU

Lecture 2 hours: lebanasary 3 hours.

Prerequieites Office Administration 31 and 34.

Offered in the Fall somester only.

Develops the ability to transcribe mailable business letters. Emphasizes the following skills: (1) typewriting on the computer, (2) producing copfrom recorded dictation. (3) spelling, (4) using correct grammar and punctuation. (5) differentiating between and among word confusions, (6) arranging copy. (7) proof-reading, and (8) handling supplies and equipment. The ability to type 35 words a minute is recommended.

75 Word Processing: Equipment Operation (2) CSU

Lecture 1 hour; laboratory 2-hours.

Designed to meet the needs of beginning computer students of all majors by providing the skills necessary to operate a simple word processing program on a personal computer. Emphasis is placed on understanding the logic inherent in performing basic word processing operations in order to input, edit, and print elementary documents such as letters, mesnos, and reports.

76 Keyboarding for Data Processing (1)

Laboratory 2 boson.

Develops fundamental keyboarding skills necessary to input information. on the computer terminal efficiently and accurately. Designed to meet the needs of data processing students and other individuals interested in developing computer keyboarding skills.

77 Microcomputer Accounting for the Electronic Office (3)

Gives students a background in bookkeeping and accounting theory as a basis for developing an understanding of microcomputer programs and applications in the electronic office. Includes acquaintainer with accounting terminology, accounting procedures, cash handling procedures, second keeping, financial statements, merchandise inventory, and payedl. Introduces students to accounting software and concepts of microprocessor mage.

78 Microcomputer Accounting Applications for the Electronic Office (3) CSU

Lecture I hour: Laboratory 4 hours.

Prerequisites Office Administration 77, Accounting 1 or 21.

Acquaints students with the use of the microcomputer for bookkeeping. and accounting applications in the electronic office. Students receive hands on experience in keeping seconds, preparing financial statements, generating financial management reports, and setting up a simulated company using QuickBooks.

79 Word Processing Applications (3)

Lecture 2 hours; laboratory 3 hours.

Prerequisites Office Administration 29 or 84, and Office Administration 2. Offered in the Spring semester only

Immoduces deskrop publishing concepts using a word processing program Uses a word processing program to develop skill in preparing a variety of husiness documents. Covers formats for letters, memorandums, reports, tables, outlines, form documents, two-column scrups, bulletins, brochures, and newsletters. Emphasizes the development of proofreading and editing skills in the preparation of business documents

Field Work (1) RPT 1

Laboratory 3 hours

Prerequisites Concurrent enrollment in Office Administration 24. Offered in the Spring semester only.

Provides an opportunity to obtain specialized experience in clerical, legal, or word processing rovironments through an internship program. During this cooperative work experience program, students are given varied practical applications in their respective fields and are able to coordinate this experience with their classroom instruction.

Microcomputer Software Survey in the Office (3) CSU.

Lecture 2 hours: laboratory 3 hours

Introduces students to the use of the microcomputer and commercially available infeware used in business offices. Course provides hands-on introduction to Windows, word processing, database, speradsheet, and presentation software. Sendent gains basic knowledge necessary to interact with the computer. No previous computer operating experience required, although ability to type is recommended.

84 Microcomputer Office Applications: Word Processing (3) CSU RPT 2

Lecture 2 hours; Laboratory 3 hours.

Prepares students to become proficient in WordPerfect using an IBMcompatible microcomputer. Students will learn beginning and advanced functions and apply their skills and knowledge to a wide variety of timple and complex documents, such as letters and memorandums, columnar tables, text tables, manuscripts, and mailing list documents. Knowledge of typewriting and good English skills will be beneficial.

85 Microcomputer Office Applications: Spreadsheet (3) CSU Lecture I hour; laboratory & bown

Designed to reach office spreadsheet applications using the IBM compatible microcomputer and a spreadsheet program (Facel). Seedenrs learn to create, edir, format, and print worksheets. They also learn to prepare graphs from worksheers, use functions, sort and filter data bases. creare mactos, and summarise data. Emphasis is on office accounting applications and simplifying office accounting procedures.

Microcomputer Office Applications: Database (3) CSU Lecture I hour, laboratory & hours.

Designed to teach office data base applications using an IBM compatible microcomputer and a data base program, such as Access. Covers records design, file creation and maintenance, data manipulation, report formats, and prinring. Emphasizes office applications.

Microcomputer Office Applications: Desktop Publishing

Lecture 2 hours; laboratory 3 hours.

Prerequisites Office Administration 39 or 84 and Office Administration 2. Provides instruction and hands on training in deskrop publishing using Pagemaker on IBM-compatible encrocomputers, laser printers, scanners, and software programs. Includes preparing advertisements, fliers, business forms, reports, newsletters, and presentations.

89 Microcomputer Office Applications: Disk Operating System (3) Lecture 1 hour; laboratory 4 hours.

Provides an overview of computer hardware, software, operating system concepts, and graphical user interfaces. Students learn fundamental computer command system with an in-depth study of the Disk Operating System (DOS) commands and graphical user interfaces using the Windows Operating Environment

92 Computer Windows Applications (2) CSU

Lecture 1 hour; Laboratory 2 hours

Presents a beief look at computer hardware and software with an in-depth study of graphical user interfaces ming Windows.

97 Introduction to the Internet (3)

Lecture 3 hour, laboratory 2 hours.

Defelops skills and abilities in relecontinunications, especially use of the Internet. Provides instruction in fax transmissions. Focuses on using Neuscape Navigator, Microsoft Internet Explorer, search engines (Lycos, Excise, Alta Vista, Yahoo), File Transfer Protocol (FTP), electronic mail (E-mail), and creating a home page on the World Wide Web.

185 Directed Study - Office Administration (1)RPT 2

285 Directed Study - Office Administration (2)

385 Directed Study - Office Administration (3)

Conference I have per unit.

Prerequisites Office Administration 1 or 2.

Allows students to pursue Directed Study in Office Administration on a contract basis under the direction of a supervising instructor.

Cooperative Work Experience Education -Office Administration

See Corporative Work Experience Education.

Personal Development

Introduction to College (1) RPT 1

Provides students with important information about the College and its resources. Assists the mudeot in educational planning and acquiring skills necessary for academic success such as time management, study skills, and other skills that are necessary for college survival.



Career Planning (1) CSU

Levium I house

Designed to give the vocationally undecided student an understanding of the career planning process. May include vocational tests, various add appraisal techniques, and information regarding occupational characteristics, trends, entry and career levels. Iraches career planning skills and allows the student to work roward a career change.

7 Seminar for Returning Students (1) CSU

Lectury I bours

Open to hoth men and numera

Develops inderstanding segarding concerns, issues to, and meeds of madeous in the areas of employment, education, and changing demands of home, career and society. Emphasis will be on using these understandings to enhance the academic and social growth of the anadous. May be offered for 10 works - 2 hours a work.

Career Planning and Development (2) CSU

Leerier 2 bower

Teaches the process of career planning. The emphasis is no learning about yourself and the world of work and how to use this information in career planning. This course also acquaints the students with college services, personnel, curricula, and student activities.

15 Personal Development Seminar (3) (NDA) RPT 3

Lection & hours

Group study of a selected topic, the title and units to be specified in the schedule of classes. No more than 3 units may be taken in any semester.

Philosophy

Introduction to Philosophy (3) UC:CSU

Lexenser & boson.

This is a basic introduction to some of the fundamental issues of philosophy and humanity that include topics such as knowledge and reality, the incarning of the supernatural, the foundations of truth and science, and the nature of human consciousness/self.

Society and Values (3) UC:CSU (CAN PHIL 2)

Lecture 3 hours.

Formerly salled Introduction to Philosophy II."

May be offered as in honory section.

Introduces the student to some of the traditional subjects and contemporary issues in philosophy; includes some of the approaches and terminology found in philosophical linerature.

Logic in Practice (3) UC:CSU (CAN PHIL 6)

Lectury 3 Jours

Applies the logical principles of sound thinking to morals, politics, and everyday life. Emphasis is placed upon the analysis of language as an aid to sound chinking.

Inductive Logic (3) UC:CSU

Letter I hours

Introduces the concepts, methods, and limitations involved in the systematic procedures of factual inquiry in the sciences and in unlinary thought. Includes probability, measurement, cannot selection, statistical inference, the concepts of "law" and "theory".

Symbolic Logic I (3) UC:CSU

Lesture 5 hours

Introduces the student to formal logic, describing various systems of symbolization, the logical concept of sentential connectives and quantifiers. Introduces the concept of deductive logic using various techniques of proof. Uses techniques of translation and the application of formal logic to analysis of arguments and determination of validate.

12 History of Greek Philosophy (3) UC:CSU (CAN PHIL 8)

Lecture 3 hours.

Farmerly called "Philosophy 3. History of Greek Thoughs" Offered in Spring senseter only.

Introduces the undere in most of the important philosophers of ancient Greece and Rome. Covers the development of western philosophy from the pre-Socratics through Plotimis, with special emphasis on Plato and Aristotle.

14 History of Modern European Philosophy (3) UC:CSU (CAN PHIL 10)

Lecture 3 bours.

Formerly called "Philosophy 4, History of Modern Thought" Offered in Fall senseser only

Traces western philosophy from the rise of modern science to the 20th century, with special emphasis on Descartes, Locke, Hume and Kane.

15 History of Contemporary Philosophy (3) UC:CSU

Lecture 3 bours.

Formerly called "Philosophy 12"

May be offered as an honors section.

Studies recent philosophical developments in Continental and Anglo-American philosophy with readings from such figures as Nierache, Heidegger, Husserl, Dervida, Forecastt, Gadamer, Ricorut, Habermas, Ransell, Watgennein, Dewey, Quine, Rawls, Davidson and Rory.

19 Contemporary Problems in Bioethics (3) UC:CSU

Lecture 3 hours.

May be offered as an houses section.

Introduces the student to some of the traditional ethical theories and how they apply to comemporary biomedical ethical problems. Among specific inner to be discussed are abortion, natrogacy, euthanatia, informed coment, genetic engineering, suicide, organ donation, and allocation of scace mountes. 45 C. E. U.'s will be available upon request.

20 Ethics (3) UC:CSU (CAN PHIL 4)

Leeswer 3 hours.

Considers human conduct, in rules and natural law, the moral basis of improvious, religious, and the moral order.

29 The Ethics of Biotechnology (1) UC:CSU

Lecture I hour.

Corequisites Biology 40

This course provides an introduction to the use of ethical theories to examine the differents associated with advances in hiotechnology and methods of resolution of these differents.

30 Asian Philosophy (3) UC:CSU

Lecture 3 hours.

Formerly culled "Philosophy 22, Philosophies of the Orient"

Presents the hasic concepts of the philosophical systems originating in the civilizations of China, Japan, and India. Considers differences between Oriental and Occidental antitudes and concepts in relation to the impact of Western thought on current philosophy in the Orient.

35 Judaism, Christianity, and Islam (3) UC:CSU

Lecture 3 hours.

Formerly called "Philosophy 23, History of Wintern Religious Thought"

Offices a scholarly study of religious that explorers basic structures of religious belief and practice. Examines the world views which influenced and shaped the growth and development of the western religious traditions, encourages a desire to understand as a means of overcoming the destructive eachanges that frequently accompany religious discussion.

41 Introduction to Philosophy and Literature (3) UC-CSU

Lecture 3 hours.

Formerly called "Philosophy 24. Introduction to Philosophy of Literature" Scudies the literary medium as it is employed to expens and explore philosophical themes such as freedom, determinists, moral responsibility, alienation and logic. Each particular class also allows for a seview of literature of a relatively specific online, for example, twentieth century existentialism. Cognate concepts from literary criticisms, ambropology, sociology, psychology and religion are utilized for understanding selected literary works although no background in any of these fields is required.

42 Philosophy and Cinema (3) UC:CSU

Formerly called "Philosophy Mi" May be affered as an honors section

Examines traditional philosophical problems about the meaning of late, truth, knowledge and belief, reality, self and society, reason and emotion, morality and justice, freewill and determinion, and the meaning and role of philosophical questioning itself through selected films.

201 Logic in Written Communication (3) UC:CSU

Lecture 3 hours.

May be offered as an honors section.

Prerequisites English 101 with a goade of "C" or better.

Critically examines language and argumentation in written material from pournalism, literature, and philosophy. Includes the writing of precis, short essays, and a research paper.

Photography

9 Introduction to Cameras and Composition (3) CSU

Note: Intended for more-photo majors. No laboratory. Students must have a 35 mm comera. Fully assumants: converts without manual accorde capabilities do not allow students to fulfill some of the course's required assignments and limit the student's ability to learn batic photography sourcept ff in doubt, contact the Photography Lab in BUNCS 0333 for specific recommendations.

Leaver 3 hums.

Designed to provide basic information in the use of cameras, lemes, film and exposure to produce good photographs. Slide assignments are given for analysis in class.

10 Beginning Photography (3) *UC:CSU (CAN ART 18)

Lecture 2 hours; Lebonatory 3 hours

Note: Students must have a 35 mm camons. Fully automatic cameras without manual overrule capabilities do not allow students to fulfill some of the source's required assignments and limit the student to destity to leave basis photography concepts. If in doubt, contact the Photography Lab in BUNG 0335 for specific recommendations.

Recommended: Pryvious or concurrent enrollment in Journalism 100 for Photography. Students interested in taking advanced photo classes should enroll in Photography 27 concurrently with Photography 10 or the next sensities.

Presents theory and practice in basic photography with emphasis on the use of a 35 mm cartiera, development of negatives and final prints. Students should have their own cameras.

11 Advanced Photography (4) CSU RPT 2

Lecture 2 hours: laboratory 6 hours.

Precognitites Photography 10 with a made of

Precoquisite: Photography 10 with a goale of "C" or better.

Recommended: Pressure or concurrent carollment to formalism 1011 for Photogramation ration.

Provides theory and practice of contemporary use of the camera; training in projection controls includes special effects percentures with an emphasis on creative thinking and idea preparation and execution.

12 Advanced Photographic Techniques (4) CSU

Lecture 2 hours: Laboratory 6 hours.

Prerequisites Photography 11 with a grade of X. or better and completion of or concurrent enrollment in Photography 20 and 27.

Offers a study of advanced photographic techniques, theory, chemicals and formulas nocessary to the creative photographer. Includes special effects, such as has relief, refoculation, solarization, resture screens, montage princing, etc.

16 Fundamental Commercial Photography (3)

Locare 2 hours: Lebinarity 3 hours.

Prerequisite: Photography 11 with a grade of "C" or better and completion of or concurrent prevalences in Photography 20 and 27.

Covers the major phases of commercial and illustrative photography as they apply to publication photography.

17 Introduction to Color Photography (3) CSU

Lexage 2 boun, laboratory 3 binon

Prerequisite: Photography 11 with a guide of 'C' or better and completion of or concurrent enrollment in Photography 20 and 27.

Studies the theory of light and color and its relationship to exposure and color printing trype C and type R). Also, color negative (C-41) and transparency processing (E-6), uslor printing techniques and basic quality control are studied and practiced.

20 Beginning Photojournalism (4) CSU

Lecture 2 bours; laboratory & hours.

Prerequisites Photography 10 with a grade "C" or bester.

Recommended: Pressure or concurrent enrollment in four-values 101 for Photogramulion majors.

Covers photojournalism methods, coverage of news, feature, sports events, and documentary photography.

21 News Photography (4) CSU RPT 3

Leenure 2 hours: Laboratory & hours.

Some as Journalism 221. Credit not given for back courses.

Prerequisites: Photography 1.1 and 20 with a grade of 'C' or better and completion of or concurrent enrollment in Photography 27.

Gives practice experience in the taking and processing of news and feature pictures, emphasizing the use of cameras normally employed in phono-purmalism. Affords students the opportunity to take, develop, and print pictures for the college newspaper and magazine.

27 History and Aesthetics of Photography (6) UC:CSU

Recommended: Completion of or concurrent overallment in this class is required to entril in advanced plants classes. Plantejournalism majors must take this course no later than short semester of sequence.

Provides a chromological description of the major developments of the photographic medium. Relates these developments to society and to events in the other visual arts, and examines the meaning of photography in a work of art.

UC Credit Limits Maximum three wests.

185 Directed Study - Photography (1) CSU RPT 2

285 Directed Study - Photography (2) CSU

385 Directed Study - Photography (3) CSU

Conference I hour per unit.

Allows students to pursur Directed Study in Photography on a contract busis under the direction of a supervising interactor.

911-941

Cooperative Work Experience Education - Photography

See Cooperative Wire Experience Education

· *UC Credit Limit: Ser Art courses with **



Physical Education

University of California accepts a units of coolst from the following Pleuscal Education courses listed under the braidings of Water Activities, Individual and Dual Acception. Team Sports, Dance Activities, and Intercallegiate Sports plus related activities. All classes may be taken by either gender with the exception of Intervallegiate Sports, which classifies surrous activities for "Men" or "Women."

Note: Only courses marked activity meet the District Requirements for Physical Education activity. Read thoroughly the Schodule of Classes to determine which level one should enough in (i.e., Beg., Inc., Adu.)

The activity of Physical Education requires repetitive practice for the student to achieve the course objectives. For this masen, it is educationally sound for a student to repeat a Physical Education activity course. No activity course may be taken for more than four semesters.

Check with the Department or Courseling Office for transferability of courses to four-year institution/and for unit limitations of courses accepted by both University of California and CSUN.

90 Individual Physical Fitness Laboratory A and B (2) CSU RPT 3 Laboratory & Journ.

Individualized program to develop cardiovascular endurance, muscular endurance, strength and flexibility through aerobics, low impact aerobics, strench/sone, power walking, jogging, weight training, resistance exercises, aqua-aerobics, par course and other exercise equipment. Individual evaluation and information on fitness, body composition analysis, nutrition and stress management.

91 Theory and Application of Aerobics and Conditioning (3) CSU Lecture 2 hours, Subsection 2 hours.

Increases student awareness regarding changes in physiology resulting from aerobic exercise. Provides the students with an opportunity to participate in, and understand the components of a valid conditioning and nutritional program.

96 Combined Activities (1) *UC:CSU RPT 3

Activity, 2 hours.

Principles, techniques, and practices of fundamental movements used in sports, rhythmic activities as swing and line dances, aquatics, grunnatics, and other conditioning activities as discreted are included in this course. Others opportunity to develop individual skills and rule knowledge in traditional games (may include hadminum, paddle sennis, table transis, deck tennis, archery, running, body conditioning and others as facilities permut.)

Water Activities (1) *UC:CSU RPT 3

Activity 2 hours.

Beginning, intermediate, and advanced levels offered for all courses listed below except 101. All levels may not be taught each sensester:

101	Non-Swimmer
102	Swimming Skills
105	Diving Skills
121	Water Polo Skills

Individual and Dual Activities (1) *UC:CSU RPT 3 Activity, 2 hours.

Beginning, intermediate, and advanced levels offered for all courses listed below. All levels may not be taught each semester.

	The same of the sa
203	Badminton Skills
206	Handball Skilla
212	Tennis Skills
222	Racquerbull Skills
225	Yoga Skills
228	Body Conditioning
229	Body Dynamics
230	Weight Training Skills
258	Self-Defense Skills
.247	Gymnastics Skills
253	Wrestling Skills

256	Fencing Skills
259	Golf Skills
277	Snow Skiing Skills
289	Bowling Skills

Team Sports (1) *UC:CSU RPT 3

Activity, 2 hours.

Segunning, intermediate, and advanced levels offered for all courses listed below. All levels may not be raught each semester:

301	Baseball Skills
304	Baskerbull Skills
310	Flag/Touch Football Skills
313	Soccer Skills
322	Volleyball Skills
328	Sofidadi SLilla

Dance (1) UC:CSU RPT 3

Activity, 2 hours.

Level 1-2-3-4 officed for all courses listed below, but all levels may not be taught each semester:

**401	International Folk D Modern D	
**434	1	taller
**437		Jarz.
*440	Social D	wnce
*446	Tap D	amce.

Intercollegiate Sports - Men, Women, and Coed. (2) UC:CSU RPT 1, except at nated

Activity 10 hours or more in the sports in tour

	t to ten specie an analysis.
*503	Baseball (Men)
*504	Barkethall (Men/Women)
*508	Foorball (Men)
*512	Softhall (Women)
*513	Swimming (CoEd)
*514	Tennis (Mess)
*516	Volleyhall
	(Men - Fall; Women - Spring)
*517	Water Polo (CoEd)
550	Cheer/Yell Leader/Marching
	Band (no credit for UC)
	RPT 3

666 Body Conditioning (1) *UC:CSU RPT 3

Laboratory 3 hours.

This course offers matruction and participation in theory and techniques of attaining increased overall fitness through endurance and strength training utilizing resistance machines, circuit training, par course, and running.

690 Weight Training (1) *UC:CSU RPT 3

Lahmanory 3 hours.

This course offers instruction and practice in theory and techniques of weight training to gain muscle strength, flexibility, and endurance.

701 Advanced Lifesaving (2) UC:CSU

Lecture 1 hours activity 2 hours.

Nater Students must be able to 1, perform a standing front dese in transmally good form, 2, seem 500 yds consensually demonstrating some ability in using a first cravel stroke, a side stroke utilizing a sense wick, and a stroke date for the back using an inverted sensors or inverted breast stroke kick, 3, surface dive to minimum depth of 8, 029 feet and min 20, 029 feet undermater and, 4, tread uniter one recourse.

Encompanies the knowledge and skills enemial for personal safety in and on the water and includes training to assist or rescue a person in danger of drowning. Students satisfactorily complexing this course will receive their Advanced Lifestying Cands from the American National Red Cross. Written and practical examinations are given.

702 Water Safety Instruction (3) UC:CSU

Lecture 2 hours; plus 2 hours related swimming.

Note: A solid Advanced Lafestony Cortificate. This class mores the credit for
Physical Education activity. A qualifying examining test is required.

This class grants the Red Cross Water Safety Instructor Certificate to
enadence who successfully complete the requirements.

881 Modern Dance I (3) UC:CSU

Lecture 2 hours: Laboratory 4 hours.

Stresses the analysis of movement through the biomechanical principals. Beginning technique, alignment, thythm analysis, elementary elements of composition, historical overview.

802 Modern Dance II (3) **UC:CSU

Lecture 1 hour; laboratory 5 hours.
Prerequisite: Physical Education 431 and 801.

Basically the same as Physical Education 801. Differs in the madem's ability to execute the class work on a higher performance level. Historically explores dance as an expressive art.

803 Modern Dance III (3) **UC:CSU

Lecture I have: Laboratory 5 hours.
Prevequisites Physical Education 802.

Intermediate techniques and principles. Historically explores dance of the Renaissance through 1850.

804 Modern Dance IV (3) **UC:CSU

Lecture 1 hour: Laboratory 5 hours.

Prerequisites Physical Education 803.

forcemediate and advanced techniques. Hotorically explores dature of 1850 to present.

812 Current Dance Events (1) CSU

Lecture I bour; laboratory 2 hours.

Prerequisite: Concurrent enrollment in Humanizies 89 recommended

Enriches the student's dance, movemine and related art experiences through opportunities to observe and participate in a wide variety of dance experiences. Consists of demonstrations by faculty, students, and goest artists. Offers previews of cutterit concerns, symposis, and workshops with opportunities to artend and cratically analyze these events. Emphasis will include an increased awareness and a greater understanding of the self and individual's response to his environments.

814 Dance Production (2) **UC:CSU RPT 3

Lecture I hour; activity 2 hours.

Provides laboratory experience in developing the skills involved in dance production, chorengraphy, ser design, lighting, directing, and contume design. Workshop for Pience Dance Theatre and Children's Dance Theatre.

818 Fundamental Rhythms (2) CSU RPT 3

Lecruse 2 hour; laboratory 2 hours.

Designed primarily for Physical Education, Dance, Recreation, and Elementary Education majors. Rhythm analysis and performance of the fundamental movements, folk, square, social, and modern dance.

819 Choreography (3) UC:CSU RPT 3

Lecture-Lab & hours

Prerequieltes Modern Dance, Ballet, or Jazz experience.

Offices experience and enrichment in the creative tools of chorcography.

820 Dance Production II (4) CSU

Lecture 3 hours: Laboratory 3 hours.

Printides laboratory experience in increasing the skills involved in dance production (absorography, set design, lighting, contume design, make-up, etc.) Affends opportunity to perform with, and is also a workshop for the Pierce College Dance Theatre. This is a continuation of Dance 814.

185 Directed Study - Physical Education (1) †UC:CSU RPT 2

285 Directed Study - Physical Education (2) 1UC:CSU

385 Directed Study - Physical Education (3) UC:CSU

Conference I hour per unit

Allows students to pursue Directed Study in Physical Education under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Physical Education See Cooperative Work Experience Education

*UC Credit Limit: Any or all course, maximum 4 units.
**UC Credit Limit: Any or all course, maximum 12 units.

Physical Science

1 Physical Science I (3) *UC:CSU

Levrase 3 hours.

Cordit not given for both Physical Science 1 and Physics 12.

Surveys the fields of physics and chemistry stressing the historic development and applications to everyday life. Scudents, who are interested in teaching are encouraged to enroll. A one unit laboratory. Physical Science 14, is available but not obligatory.

4 Physical Science & Laboratory (4) *UC:CSU

Lecture 3 hours, Laboratory 2 hours Same as Physical Science 1 and 14 combined.

Surveys the fields of physics and chemistry stressing the hosteric development and the applications to everyday life. Scudents who are interested in traching are encouraged to enroll. The laboratory eneopopeent supplements the instruction.

5 Introduction to Air Pollution (3) UC:CSU

Lecture 3 hours

Same as Environmental Science 9. Credit not given for both course.

Introduces the student to the sources of air pollution and the technical problems of staluting air pollution. The course includes the physics of the annoughere, the chemistry of air pollutants, analysis methods and possible methods of pollution control.

14 Physical Science Laboratory (1) *UC:CSU

Laboratory 2 hours.

Prerequisite or Corequisites Physical Science 1.

Provides laboratory experience supplementing the instruction given in Physical Science 1.

185 Directed Study - Physical Science (1) TUC:CSU RPT 2

285 Directed Study - Physical Science (2) TUC:CSU

385 Directed Study - Physical Science (3) 1UC:CSU

Canference I have per unit

Allows students to pursua Directed Soudy in Physical Science on a contract basis under the direction of a supervising instructor.

*UC Credit Limits Physical Science 1, 4, and 14 combined, reasonum credit 4 units.

No ceedis for Physical Science 1 of taken after a college course in attributes, chemistry, geology, or physics,



Physics

All Physics, Engineering, and Astronomy majors should enroll in either Physics 37 if qualified or Physics 6 their first semester at Pierce.

General Physics I (4) *UC:CSU (CAN PHYS 2)

Lecture 3 hours: Laboratory 3 hours. Prerequitites A course in Trigonometry with a grade of 'C' or better. Considers the fundamental principles and applications of mechanics, hear. fluids, wave motion and sound.

General Physics II (4) *UC:CSU (CAN PHYS 4)

Lecture 3 hours: Laboratory 3 hours Prerequisite: Physics 6 with a grade of "C" or brase. Continues Physics 6 into principles of electricity, optics, and modern

12 Physics Fundamentals (3) **UC:CSU

Lecture 3 hours.

Credit not given for BOTH Physical Science 1 and Physics 12. Surveys the field of physics messing the historic development and the application in today's culture. Students who are interested in reaching are encouraged to entoll. A one unit laboratory, Physical Science 14, is available but is not obligatory:

37A,8 Physics for Engineers and Scientists I (5) *UC:CSU (CAN PHYS SEQ B)

A. Lecture 4 hours: B. demo Laboratory 3 hours.

Prerequisites Mathematics 263 (Calculus I) or equivalent: (Competence in algebra, grometry, and responentery is presumed.) Corequisite: Mathematics

Considers the fundamental principles and applications of classical mechanics, gravitation, periodic motion, and fluid mechanics at the beginning calculus level of mathematical sophirication. The laboratory includes both quantitative and qualitative experiments which permit students to verify, illustrate, and deduce various laws of physics.

38A,B Physics for Engineers and Scientists II (5) *UC:CSU (CAN PHYS SEQ B)

A. Lecture & hours: B. dono laboratory 3 hours. Prerequisite: Mathematics 262 (Calculus II), Physics 37. Corequistre: Mathematics 263 (Calculus III)

Continues the study of physics begun in Physics 37 involving introductory thermodynamics and electricity and magnetism. The laboratory includes both quantitative and qualitative experiments which permit students to verify, illustrate, and deduce various laws of physics.

39A,B Physics for Engineers and Scientists III (5) *UC:CSU (CAN PHYS SEQ B)

A. Lecture 4 hours: B. demo laboratory 3 hours Prerequisite: Mathematics 263 (Calculus III), Physics 38.

Concludes the study of physics began in Physics 37 and Physics 38 involving waves, light and optics, relativity, introductory quantum mechanics, atomic and nuclear physics. It may include topics in molecular and condensed matter as well as particle physics. The laboratory includes both quantitative and qualitative experiments which permit analysts to verify, illustrate, and deduce various laws of physics.

911-941

Cooperative Work Experience Education - Physics

See Cooperation Work Experience Education

*UC Credit Limit: Physics 6 combined with Physics 37, deduct 2 units from Physics 6. Physics 6 combined with Physics 38 or 39, deduct 1 unit each from Physics 6. Physics 7 combined with Physics 38 or 59, deduct 2 units such

**UC Credit Limit: Physics 11 and 12 combined, maximum our course. No

rredit of taken after Physics 6 or 37.

Physiology

Introduction to Human Physiology (4) *UC:CSU (CAN BIOL 12)

Lecture 3 hours: laboratory 3 hours.

Prerequisites Anatomy I with a grade of "C" or better,

Soudies the principle functions of the human body; circulatory, respiratory, digestive, nervous, sensory, muscular, excretory, endocrine,

The following sequence (Physiology 8 followed by Physiology 9) is fully equivalent to the separate Anatomy 1 and Physiology 1 courses.

Integrated Human Anatomy and Physiology I (4) *UC:CSU

Lecture 3 bours, Lebenatory 3 bours.

Prerequisites Biology 3 with a goade of "C" or better.

Introduction to the structure and function of the human body, with emphasis on the organ and systems level of study. Anatomical and physiological topics are innegrated in this first course of a two semester sequence. Laboratory includes quantitative measurements of physiological and clinical relevance, and includes the entity of human cadaven.

Integrated Human Anatomy and Physiology II (4) *UC:CSU

Lecture 3 hours: Inhonatory 3 hours.

Prerequisites Physiology It with a grade of "C" or better.

Introduces structure and function of the human body, with emphasis on the organ and systems level of study. Anatomical and physiological topics are integrated in this second course of a two semester sequence

18 Environmental, Metabolic and Nutritional Physiology (3) CSU Lecture 3 hours.

Nates Physiology 18 is approved for continuing education credit in nursing. The Provider Number is 00132.

Prerequisites: Physiology 1 or 9.

An advanced physiology course designed for students in a numing program. The course covers systemic metabolism, environmental challenges to homeostasis, nutrients role in physiology and in clinical disorders. Each student is expected to have current knowledge in human physiology.

*UC Credit Limit: Physiology 1, 8, and 9 combined, maximum 8 units.

Political Science

Also See Law 3

The Government of the United States (3) UC:CSU (CAN GOVT 2)

Lecture 3 busins May be offered as an honors section.

Studies the government of the United Stores as to himseical background. constitutional background and development, structures and organizations, legal framework, basic concepts and key problems. Also provides an understanding of U. S. foreign policy, political parties and the electorate, civil Sherries and civil eights, and issues facing the American people. A special study of California state and local government is a basic part of this course, providing for a strong civic involvement in self-government.

Modern World Governments (3) UC:CSU

Lecture 3 hours

Studies a selected variety of major national states to secure a comparative picrare of political philosophies, constitutions, political processes and governmental institutions. Emphasis is placed on those factors, geographic, historic, demographic and cultural, which contribute to differences in governmental experiences.

Contemporary World Affairs (3) UC:CSU RPT 1

Lecture 3 hours.

Smalles modern international relations and the forces which confront policy makers. Emphasises current areas of crisis. Provides a basic understanding of the position of the United States in a tense and highly compenitive political world.

14 Government and Politics in the Middle East (3) UC:CSU

Introduces political and governmental patterns prevalent in the Middle East including the Magheabi States, Turkey, Iran, and Israel. Special consideration given to the importance of Islam, the politics of oil, intraarea conflicts, American policy, relations between Middle Eastern states and the sest of the world.

The Political Process (3) UC:CSU

Lecture 3 January

Surveys the nature, operation, and foundations of the democratic order with specific focus on elections, campaigning, political behavior, public opinion, political parties, and inserest groups at the national and state levels in the United States.

185 Directed Study - Political Science (1) TUC:CSU RPT 2

285 Directed Study - Political Science (2) †UC:CSU

385 Directed Study - Political Science (3) tUC:CSU

Canference I hour per unit.

Allows mudents to pursue Directed Study in Political Science on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Political Science

Ser Conprentive Work Experience Education

Psychology

General Psychology I (3) *UC:CSU (CAN PSY 2)

Required for Psychology majors.

Lecture 3 hours

May be offered as an honory section.

Presents an introduction to the vocabulary, methods, and problems of psychology. Discusses individual and social problems of everyday life through the viewpoints and methods of modern scientific psychology.

General Psychology II (3) UC:CSU (CAN PSY 10)

Prerequisites Psychology 1 or 6.

Leccuse 3 hours.

May be offered as an honori section.

Notes Physiological Psychology

Provides an introduction to physiological psychology which considers the functional and anatomical aspects of the nervous system as they apply to behavior. Physiological processes, seructure and function of sense organs, and the effects of natural and introduced blood transported substances are analyzed is terms of their influences on emotions, speech, intelligence, consciousness, sleep, motivational and psychosomatic relationships.

Personality and Social Development (3) CSU

Lecture & hours

Seeks to develop an understanding of personality dynamics and structure. theories of personality development, various behavior forms, and the psychological basis of emotional adjustment. Examines the concepts of meutal health, and stresses the application of insights gained to life problems.

Applied Psychology (3) CSU

Lecture 3 bears

Preveguisites Psychology 1 or 6.

A study of the ways in which psychology can be applied in increasing personal and occupational efficiency, and problems relating to the applications of psychology in industry, personnel work, business, law, criminology, medicine and nursing,

Human Behavior (3) *UC:CSU

Note: Not recommended for students who have credit for Psychology 1, who are Psychology majors, or whose major requires Psychology 1.

Introduces the student to the methods and data of psychology as a behavioral science. Enables students to apply systematically obtained data and rechniques to their own experience and to their relations with others.

11 Child Psychology (3) UC:CSU

Locaure 3 hours.

Prerequisites Psychology 1 or 6.

Note: Concurrent enrollment in Psychology 81 is strongly recommended. (Credit not given for both Psychology 11 and Child Development 1)

Considers general and specific behavior patterns of children, with a view to helping adults better understand the child's behavior and development.

13 Social Psychology (3) UC:CSU

Lecture 3 hea

Prerequisites Psychology 1 or 6.

Studies individual behavior as it affects others and as it is affected by others. Considers leading principles discovered by social scientism. Includes cultural anthropology, growth and decline of social institutions, types of individual interaction, and human ecology.

14 Abnormal Psychology (3) UC:CSU

Lecture 3 hour

Prerequisite: Psychology 1 or 6.

Acquaints the student with dynamics of personality, adjustment mechanisms, mental mechanisms, types of emotional disorders, various theories of their origin and development, and various theirpeutic approaches.

Intimacy, Marriage, and Family Relationships (3) CSU Lecture 3 hours.

Formerly Lave and Marriage

Presents a scientific study of human behavior and experience as expressed in love, marriage, and family relationships. Such topics as the psychological motives of couples, the emotional maturity of couples, the need for an adequate frame of reference for marriage, the development of interpenonal competence and effective partner and parentage relations are studied.

17 The Exceptional Child (3) CSU

Lecture 3 hours.

Prerequisites Psychology 1 or 6.

Considers personality, social, and cognitive development of exceptional children, that is, mentally retarded, emotionally disturbed, brain damaged, educationally handicapped, sensory impaired, hilingual, creative, and gifted children. Discusses familial reaction, special educational problems and rechniques, and relf image.

Scholastic and Personal Development (3) (NDA)

Lecture 3 hours.

Designed to help students formulate and achieve academic and personal goals. Focuses on such academic skills are note-taking, test-taking, testanxiety reduction, self-discipline, time management and learning techniques. In addition, various psychological strangles are used to help students achieve personal success. Topics include habit control, motivation training, personal exploration and enhancement of self-excess. This course is especially useful for adults who are returning to college.

Power and Speed Reading (3) CSU RPT 1

Leceure 3 hours.

Emphasizes the development of reading speed, comprehension, and vocabulary through practice with various audio-visual devices. Emphasis is placed on applying rechniques to both study and leisure reading.



36 Psychology of Chemical Dependency (3) CSU

Lecture 3 hours

Prerequisites Psychology 1 or 6.

Introduces causes of alcohol and drug usage and addiction and their effect on human behavior. Examines the effects of various types of drugs on the brain and nervous system. Also examines the contribution of heredity and covirumment. Discusses treatment programs, education and prevention.

37 Psychology of Codependency and Family Systems (3) CSU

Prerequisites Psychology J. or 6.

Seadies the effects of chemical dependency on family systems and individuals within the family. An exploration will be made of codependency, the adult child syndrome, breaking the cycle of addiction, child above, sexual above, eating disorders, and family violence.

40 Psychology of Parent Child Relations (3) CSU

Lecture & hours

Presents a program for parents and others responsible for managing or raining children.

41 Life Span Psychology (3) UC:CSU

Lecture 3 hours

Note: Concurrent enrollment in Psychology 81 is strongly recommended. Prerequisite: Psychology 1 or 6.

An introduction to psychological development from infancy through oldage, including generic, physical, and social influences on perception, learning, metnory, intelligence, personality, self-concept, and social roles, tasks, changes, and adjustments related to each phase of the lafe cycle.

51 Psychology of Consciousness (3) UC:CSU

Lecture 3 bours.

Prerequisites Psychology 1 or 6.

Study of modern research into the psychology of consciousness and alrered states of consciousness, such as sleep, drugs, medication, biofredback, extrasensory perception, hypnosis, and creativity. The study of physiological concomittants is included.

52 Psychological Aspects of Human Sexuality (3) UC:CSU

Prerequisites Psychology 1

Explores the psychological aspects of human sexuality. Addresses areas of nexual development and functioning as they have usenning for the individual as he/she develops his/her core awareness of self and sexual identity. Topics include male and firmale anatomy and function of sexualizer, genesis of sexuality; myths and fallacies regarding the sexual process, its significance as a life function; dysfunction and variant behavior.

60 Stress Management (3) CSU

Lecture 3 hours.

Examines methods of managing environmental, organizational, social and internal stress in an effort to promote more effective coping on the part of the individual in occupational, interpersonal and everyday life situations.

66 Introduction to Critical Thinking (3) UC:CSU

Lecture & hours.

This course covers the nature of critical shinking, models and strategies, common fallacies of seasoning, self-regulation in the shinking process, application of critical shinking to specific areas, and evaluation of problem solving techniques.

81 Field Work I (3) TUC:CSU RPT 1

Lecture I hour; Saharatary 5 hours.

Recommended: Concurrent enrollment or previous completion of Child Psychology, Life Span Psychology or Child Development L.

Provides a lecture-observation-activity course in which students function as assistant trachers as the Campus Child Development Center under the supervision of in professional staff and the course instructor.

185 Directed Study - Psychology (1) tUC:CSU RPT 2

285 Directed Study - Psychology (2) †UC:CSU

385 Directed Study - Psychology (3) †UC:CSU

Conference 1 hour per unis,

Allows students to pursue Directed Study in Psychology on a contract buils under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Psychology-See Cooperative Work Experience Education

*UC Credit Limit: Credit not given for both Psychology I and Psychology 6.

Public Relations

1 Principles of Public Relations (3) CSU

Lecture 3 hours.

Evaluates public relations as a growing profession. Looks at the job opportunities for the practitioner, internal and external PR and the staff as well as the counselor tasks. Investigates relationships with the media, organizing and executing campaigns. The use of photography, graphics and marketing is studied.

Reading

See Psychology, English and Developmental Communications

Real Estate

1 Real Estate Principles (3) CSU

Lecaure 3 hours.

Surveys the fundamentals and principles of real estate, including such major topics as real estate practices, law, finance, appraisal, building and construction, investment and property management. Vocational opportunities in real estate are also discussed. This course is basic in terminology and principles to all other real estate courses, and qualifies the student to take the California Real Estate Sales Agent exam.

3 Real Estate Practices (3) CSU

Lecture 3 hours.

Prerequirite: Real Essare 1.

Covers the problems of establishing and operating a real estate brokerage business. Topics include establishing the office, securing listings and prospects, showing properties, closing sales, financing, property management, rentals and leases, appraising, and a survey of the California Real Estate Act. This course applies toward the mandatury requirement for the broker's license.

5 Legal Aspects of Real Estate I (3) CSU

Lecture 3 hour

Prerequisite: Real Estate I and 3; Business 5 is recommended.

Covers principles of property ownership and management in their business aspects, with special seferences to the law of California as it applies to community property, conveyances, deeds, trust dords, mortgages, leases, brokerage, mechanics' lient, homesteads, wills and estases, and tases. This course applies roward the mandatory requirement for the broker's license.

6 Legal Aspects of Real Estate II (3) CSU

Lecture 3 bours

Prerequisites Heal Estate 5.

Covers legal superts of real estate problems, an advanced study of agency contracts, commissions, an introduction to tax problems in residential and commercial property, advanced problems in security instrutteents, types of ownership, instructeents, types of ownership, instructeents, types of ownership, instructeents, types of ownership, instructeents, and defining condemnation, conservation liens, landlord-senant, and an introduction to related agencies and activities, including loans (mineral, oil and gar), administrative procedures, and particial review.

7 Real Estate Finance I (3) CSU

Lecture 3 hours.

Prerequisites Red Essate 1 and 3.

Studies the forms and sources of financing property, construction and permanent financing. Covers the procedures for F. H. A., Cal. Vet, and V. A. financing, mortgage capital from sovings and loan associations, commercial banks, insurance companies, and other sources, junior mortgages, appraising for mortgages, loan ratios, and leaseholds. This course applies toward the mandatury requirement for the booker's license.

9 Real Estate Appraisal I (3) CSU

Lecture 5 hours.

Prerequiples Real Estate 1 and 3.

Emphasizes appraisal methods for single-family sendence. Covers valuation principles emphasizing the cost and comparative approaches. Factors influencing value are discussed, such as architecture styles, type of construction, let valuation, depreciation, and other related subjects. This course is designed for those presently employed in the real estate field, or for those interested in the subject matter.

10 Real Estate Appraisal II (3) CSU

Lecture 3 hours.

Prerequisiter Real Estate 9.

Emphanies appraisal methods for multiple-dwelling residences, such as apartment buildings and hotels, office buildings, shopping centers, industrial properties, and other income-producing properties. Reviews the Cost and Comparative techniques for valuation but emphasizes the locome Approach to valuation. Topics such as operating expenses, methods of capitalization, depreciation techniques, gross multiples, and other related subjects are documed.

Cooperative Work Experience Education - Business

See Corpensive Work Experience Education.

Recreation

185 Directed Study - Recreation (1) CSU RPT 2

385 Directed Study - Recreation (3) CSU

Conference I hour per unix.

Allows students to pursue Directed Study in Recreation on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Recreation See Cooperative Work Experience Education.

Secretarial Science

See Office Administration

Sign Language

See American Sign Language

Sociology

1 Introduction to Sociology (3) UC:CSU (CAN SOC 2)

Lecture 5 hours.

May be offered as an honore section.

Presents an orientation to the field of sociology including such sociological concepts and issues as culture and subculture; development of the self; gender and age roles, social class and caste; groups, communities, collectricities, and organizations; deviance; tacism; human institutions: family, religion, education, government, economics; and population change in society.

2 American Social Problems (3) UC:CSU (CAN SOC 4) Legacy 5 fours.

Deals with the sociological identification and analysis of contemporary social problems in the United States. Analyses aspects of social and cultural change which include issues of personal demoralization and social disorganization.

3 Crime and Delinquency (3) UC:CSU

Lecture 3 hours.

Examines the nature and extent of crime and delinquency, theories of causation, types of juvenile and adult offenses, and efforts by society to cope with law violations. Includes programs for prevention, correction, and echabilitation.

4 Sociological Analysis (3) UC:CSU

Lecture 3 hours.

Offered in Fall sympter only.

Considers approaches to the scientific analysis of society and social institutions. Analyses various methodological mois utilized in social science research and emphasizes clarification of the basic social science issues. Students will analyse and organize data collected in the field.



The Social Environment (3) UC:CSU

Lecture 5 hours.

May be afferral as an bosons section.

Investigates the movements, trends, and distribution of population and their effect upon the structure, chatacter, and social life of rural, solution, and urban societies, with particular emphasis upon changes in the United States. Cambrines an anthropological and sociological orientation to human ecology and demography.

7 Juvenile Delinquency (3) CSU

Lecture & hours.

Relates deforquency in other areas of social disorganization such as alcoholisms and drug addiction. A course for students, parents, social workers, and teachers in the problems relating to juveniles ranging in type from the potential definipaent to the institutionalized offender.

1 Ethnic and Racial Minorities in the United States (3) UC:CSU

Lecture & Louis

May be offered as an human section

Emphasizes cultures of othnic groups in the United Searcs; exploses race and racion; examines the challenge of achieving unity with illustring in the United States.

13 Society and Personality (3) UC:CSU

Lection & Jours

May be offered as on lumors arriven.

Studies the relationship between individual personality and the social mileu. Looks at research investigations and their findings. Denotes amention to child training and culture patterns in some western cultures compared to some non-western cultures.

15 Religion and American Society (3) UC:CSU

Lecture 3 hours.

May be offered in an houses section.

Explores contemporary religious forms and values as they relate to social behavior and political responsibility, considers traditional religious, religious subcultures, and culor, emphasises United States but includes international perspective.

17 Introduction to Counseling (3) CSU

Lecture 3 hours.

Introduces the problems, techniques, and sociopsychological theories of counseling. Includes the study of behavior as a function of factors operating in groups. Provides an orientation in techniques for the development of leadership and adjustment in behavior.

28 The Family: A Sociological Approach (3) UC:CSU

Lecture 3 hours

May be offered as an houses section.

Presents the family as a social institution, mare selection and marriage adjustment, structure and function, interaction, cross-cultural family parterns, historical changes, and concemporary social influences on the family.

Technology and Modern Society (3) UC:CSU

Lecture 5 hours.

Explores the impact of technological change on the family, education, religion, medicine, and government. Counders popular reatments of future social trends and their implications for the individual and for social structure.

911-941

Cooperative Work Experience Education - Sociology

See Cooperative Work Experience Education

*UC Credit Limits Sociology 4 and 18 combined, maximum one course.

Spanish

1 Elementary Spanish I (5) UC:CSU (CAN SPAN 2)

Lecture S Inners.

Recommended: Compress surollment in Spanish 101.

Recommended: Elipholisy for English 101, or eligibility for and concurrent envolvement in English 20. Sendents with previous knowledge of Spanish should ownell in a higher level. Profession matter speakers should excell in Spanish 4, %, or 6.

Introduces the fundamentals of pronunciation and grammar, practical tocabulary, and meful pheases. Emphasizes the ability to understand, speak, read, take dictation in, and write simple Spanish. Campeises basic needings in geography, consum and culture of Spain and Spanish America. English is used to explain grammatical concepts but the class is conducted at much as possible in Spanish. Corresponds to the first year of highschool Spanish.

2 Elementary Spanish II (5) UC:CSU (CAN SPAN 4)

Lecture 5 hours

Prerequisites Spanish I or one year of high school Spanish with a grade of Con better

Recummended: Concurrent enrellment in Spanish 101.

Recommended: Eligibility for English 101, or eligibility for and concurrent enrollment in English 28. Sendents with precious knowledge of Spanish should coroll in a higher level. Profesions native speakers should enroll in Spanish 4, 5, or 6.

Continues with the development of understanding, speaking, reading and writing skills in Spanish. Classes are conducted almost entirely in Spanish and are asmed at the acquisition of fluency in spoken Spanish. Course content includes material on contemporary life and culture in Spanish speaking countries. Corresponds to the second year of high school Spanish.

3 Intermediate Spanish I (5) UC:CSU (CAN SPAN 8)

Lecture 5 bears

Prerequisites Spanish 2 or two years of high school Spanish with a grade of 'C' or better.

Recommended: Concurrent enrollment in Spanish 101.

Recommended: Eligibility for English 101, or eligibility for and concurrent corollinent in English 28. Students with pervious knowledge of Spanish should enroll in a higher level. Profesions native speakers should enroll in Spanish 4, 5, or 6.

Notes Concurrent curollinese in Spanish 8 is strongly recommended for nonnative speakers.

Anists the student in the further development of proficiency in understanding, speaking, mading and writing Spanish. Beviews grammatical concepts learned in previous courses and emphasities uliomatic construction and conversational ability. Introduction to the reading of lucrature. Discusses Spanish and Spanish-American life and posiblens.

4 Intermediate Spanish II (5) UC:CSU (CAN SPAN 10)

Lecture 5 hours.

Prerequisites Spanish 3 or three years of high school Spanish with a grade of Con heave

Recommendeds Concurrent enrollment in Spanish 101.

Notes Concurrent ourollment in Spanish B is strongly recommended for nonrosters speakers.

Emphasizes vocabulery building and composition. Gives an introduction to Spanish or Spanish-American authors.

5 Advanced Spanish I (5) UC:CSU

Lecture 5 bours.

Prerequisite: Spanish 4 with a grade of "C" or better.

Notes Concurrent enrollment in Spanish 8 is strongly recommended for non-

Introduces the student to some of the important movements in Latin-American lineature. Includes readings in prose and poetry from sepersentative authors of Latin America and continues the study of a advanced composition and grammar, through oral and written reports in Spanish.

6 Advanced Spanish II (5) UC:CSU

Lecture 5 June

Precognitive Spanish 5 with a grade of "C" or better.

Note: Concurrent enrollment in Spainish B is strongly recommended for nonmatter weakers.

Introduces some of the important movements in Latin American linerature. Advanced madings in prose and poetry from representative authors of Latin America. Continues the study of advanced composition and grammar, oral and written reports.

8 Conversational Spanish (2) CSU RPT 3

Lecture 2 hour

Prerequisites Spanish 2 with a grade of 'C' or bester. Recommended: Consument curallment in Spanish 101.

Deschops conversational skill and fluency. Emphasizes idiouss, corner use of nance of Spanish works, and fundamental semence structure. Audiovisual aids applement the program of instruction.

10 Latin-American Civilization (3) UC:CSU

Lecture 5 hours.

Some as History 23. Coodit not given for both courses.

A study of the diverse cultures of Spanish and Portuguese speaking countries and peoples, together with the theires, internation, beliefs, and symbols that have endured though time and their quest to define and understand their identity in their actions, in their memories of the part, and in their dreams of the future.

12 Contemporary Mexican Literature (3) UC:CSU

Leener I hours.

Humaninin Credit

Note: Ecology are in English translation. Knowledge of the Spareith language to not required.

Lectures and discussions in English on the literature and bintory of Mexico during the twentieth century with a background of earlier works. Students will read translations of principal writers. This course is the same as Chicano Studies 42, Contemporary Mexican Literature, which is offered by other colleges in the Los Angeles Community College District.

15 Great Books of Latin American Literature (3) UC:CSU

Leeuse 3 hours.

Humannin Creda

May be affered in the honors section.

Note: Readings one in English translation. Knowledge of the Spanish language

Introduces selected writings of Laun American authors such at Mariano Anucla, June Rulfo, Ricardo Guiraldes, Romulo Gallegos, Miguél Anurias, Augustan Yaner, Jose Ruben Romero, Gregorio Lopez y Fuentes, Mario Vargas Llota, Joho Cueravat, Marilo Arguera, Jorge Lusas, Jose Dossoo, Marouel Ping and others, with particular emphasis on contemporary writers and the "Boom Movement". All madings, loctures, and discussions will be in English.

25 Spanish American Short Story in Translation (3) UC-CSU

Lexive 3 hours.

Humanities Coolit

Notes Beadings are in English translation. Enoughdge of the Spanish language

Surveys the different literary movements and tendencies that have marked the evolution of Spanish American literature from the 1830s to the boom and beyond: Remannicitin, Realism, Nanaralism, Modernism, Crinllismo, Cosmopolitanism, and Surealism. All readings, lecture, and discussions will be in English.

26 Understanding Latin America through Film (3) UC:CSU

Leave 3 hours.

Humanities credit

Examines feature films as a communicative art form that offers a thematic approach to the understanding of the diverse multicultures of Latin America. The films analyzed reflect four basic themse: Transitions and Change, Cultural Contrasts, Human Rights, and Women and Society All readings, lectures, and discussions are in English. No knowledge of Spanish is necessary.

27 Cultural Awareness Through Advanced Conversation (3) UC-CSU

Lecture 3 hours.

Humanities credit

Prerequirite: Spanish I with a grade of "C" or better.

Divelops usal facility and cultural awareness, emphasizing speaking and understanding Spanish in sweryday situations common to Latin America. Good grasp of grammar is a prorequinite. Prepares student to live in a Spanish-speaking country.

101 Spanish Language Laboratory (1) CSU RPT 3

Laboratory 2 hours.

Nate: Personnerated for all students enrolled in Spanish J. 2, 3, 4, and 8. This is a credit/no-credit course. Students receive one unit of college credit (with no letter grade) by spending at least 32 hours over the sumester using the equipment and regularly handing in the lab workbook assignments to their instructor. This language workshop uses multi-media (video, audio and computers) to enhance instruction. Students must be currently encolled in a Spanish language course.

185 Directed Study - Spanish (1) TUC:CSU RPT 2

285 Directed Study - Spanish (2) †UC:CSU

385 Directed Study - Spanish (3) TUC:CSU

Conference I hour per unit.

Allows students to pursue Directed Study in Spanish on a contract basis under the direction of a supervising instructor.

Special Education

See also Learning Skills

1 Introduction and Survey to Learning Disabilities (3) (NDA) RPT 3

Leaure 3 hours.

Formerly Learning Skills 12

Prerequisites Learning Skills 185.

Course provides intensive introduction to learning disabilities. Students will read intrature related to subject, be able to identify varieties of learning disabilities and related correspondency strategies for particular learning deficits. Students will identify personal intervention strategies to maximus academic efform.

Reading and Composition for the Learning Disabled Student (3) (NDA) RPT 3

Lecture 3 hours.

Formerly Learning Shills 14

Prerequisites Learning Skills 185.

Special Education 2 will provide learning disabled undertran opportunity to improve reading and writing skills through clinical assessment and individualized prescriptive unorials that include lectures, small group discussions and one-to-one assistance in reading, writing and werballizing skills.

3 Computer-Directed Writing Skills (2) (NDA) RPT 3

Lection 1 hour; laboratory 2 hours.

Formerly Learning Skills 21

Preroquirite: Learning Shills 185, Special Education 85.

Students will master percumposition and composition skills in order to write simple marrative/informative essays. Using IBM-based computer systems, learning disabled students will develop basic composition skills and demonstrate mastery of grammar, patternation and spelling.



Basic Vocabulary for the Hearing Impaired I (3) (NDA) RPT 3

Lection 3 hours.

Normally offered in the Full semester.

Provides the opportunity to learn essential words encountered in college reading. Applies the words in student-composed sentences. Computes and contrasts meanings in Ameslan with meanings in English. Develops spelling ability and emphasizes the liabit of using the dictionary and other mole for building vocabulary.

11 Basic Vocabulary for the Hearing-Impaired II (3) (NDA) RPT 3

Lecture 3 hours.

Normally offered in the Spring semister,

Continues vocabulary development of hearing impained students for the purpose of improving reading and writing skills.

21 Reading Clinic (3) (NDA) RPT 3

Lecture 3 hours.

Among the hearing-impaired student in developing sight vocabulary, reading comprehension, and word arrack skills. Provides opportunity for increasing speed and efficiency in reading.

24 Practical Mathematics for the Hearing Impaired (3) (NDA) RPT 3

Lecture 3 hours.

Covers mathematical concepts up to and including some fundamental algebra. The concepts of fractions, decimals, percent, measurement, and word problem attack skills will be emphasized.

29 English for the Hearing Impaired Student (6) (NDA) RPT 3

Lecture 6 hours.

Assure the student who is hearing impaired with upgrading English language skills on an individual basis. The course emphasizes vocabulary, reading and writing skills.

25 Computer-Assisted Vocabulary Development (1) (NDA) RPT 3 Laboratory 2 Journ.

Scodents will work directly under the supervision of an instructor, and work with Special Services microcomputers which will perform the instruction and trating of new vocabulary. Students can learn up to 2500 words.

49 Computer-Assisted Spelling Development (1) (NDA) RPT 2

Students use a computer to learn, practice and be tested on up to 750 commonly manipelled words. All work is individualized, and students learn only those words that they do not know.

85 Adaptive Word Processing (1) (NDA) RPT 1

Laboratory 2 bours.

Prerequisites Knowledge of keyboarding

Provides hands on training in basic word processing skills for students who because of their disability would otherwise be unable to access the computer. This course is not intended to train students for a job in word processing.

Speech Communication

101 Oral Communication I (3) UC:CSU (CAN SPCH 4)

Lecture 3 hours.

Prerequisites Eligibility for English 28 recommended.

Offers training in the theory of speech communication and the practice of effective preparation and delivery of structured oral presentations.

103 Business and Professional Speaking (3) CSU RPT 2

Lecture 3 hours

This course enables the student to apply speech communication skills to the business setting. Structured oral presentations are used to gain the skills required for business receings, conferences, interviews and discussions.

104 Argumentation (3) UC:CSU (CAN SPCH 6)

Lecture 3 hours.

Prerequisites Eligibility for English 28 recommended.

Explores the critical thinking process, emphasizing the use of logic, reasoning, and evidence in the presentation and analysis of sound arguments. Students will participate in debates.

111 Voice and Articulation (3) CSU

Lecture 3 hours.

Provides speech experiences to develop awareness of coerect wowel and consument articulation through the use of phonetic practice. Covers wocabulary, phonetic and discrinical symbols, alphaber and the vocal mechanism.

113 English Speech as a Second Language (3) CSU RPT 1

Lecture 3 hours

Stresses speaking of English, pronunciation, idiomatic expressions, phraseology, rhythenic inflections, grammat, vocabulary building, and oral composition. The course is designed for students with foreign language backgrounds.

121 The Process of Interpersonal Communication (3) UC:CSU (CAN SPCH 8)

Lecture 5 bears.

Prerequisites Eligibility for English 28 recommended.

This lecture/activity/discussion course examines the theory, scope and purpose of human communication in interpersonal environments. Students participate together in oral exercises.

122 Communication Across Cultures (3) UC-CSU

Lecture 3 hours.

Surveys the verbal and non-verbal ways cultures of the world communicate. It focuses on communication fundamentals, language, cultural origins, and methods of handling intercultural communication conflicts. Students will participate in researched oral discussions of selected cultural groups.

185 Directed Study - Speech Communication (1) †UC:CSU RPT 2

285 Directed Study - Speech Communication (2) †UC:CSU

385 Directed Study - Speech Communication (3) †UC:CSU

Conference I hour per unit.

Prerequisites Speech Communication 101, 102, or 104.

Allows endents to pursue directed, individualised study in the field of Speech Communication on a contract basis under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education -Speech Communication

See Corporative Work Experience Education

Statistics

Elementary Statistics I for the Social Sciences (3) UC:CSU (CAN PSY 6)

Leenur 3 hours.

Prerequisites Mathematics 125.

Nates Students may be required to present proof of completion of Intermediate Algebra or its equivalent as the first class meeting.

UC Credit limits Civilis not given for both Statistics I and Mathematics 227.

Covers both descriptive and inferential statutics. Topics include methods used to collect and describe data, central tendency, variability, the normal curve, correlation, prediction, sampling distributions, probability and hypothesis texting. Emphasis is on conceptualization as well as data analysis.

- 185 Directed Study Statistics (1) CSU RPT 2
- 285 Directed Study Statistics (2) CSU
- 385 Directed Study Statistics (3) CSU

Conference 1 hour per unit.

Allows students to pursue Directed Study in Statistics on a contract businesses the direction of a supervising instructor.

Study Skills

See Psychology and Developmental Communications

Supervision

1 Elements of Supervision (3) CSU

Lecture 3 bours

Introduces in general terms the total responsibilities of a supervisor in industry. Topics include organization, duties and responsibilities, human relations, grievances, training, taking promotion, quality-quantity control and coanagement-employer relations.

2 Basic Psychology for Supervisors (3) CSU

Lexture 3 bours

Prerequisites Supervision L.

Teaches the hasic principles of dealing with people in business and industry to assist the supervisor in understanding the people with whom he works. Emphasizes the psychological aspects of emotion, articules, perceptions, personalities, learning processes, motivation, and job adjustment.

6 Labor-Management Relations (3)

Lecture 3 bours.

Studies employer-employer relations in government and business. Includes the supervisor's responsibility for effective managementemployer relations; historical background of unions and other employer groups; impact and effect of federal, stare and local legislation on wages, hours, grievances, discipline and other working conditions; and employer and employee rights and obligations under a civil service system. Considers the tole of employee organizations in government agencies versus prevate industry.

11 Oral Communications (3)

Lecture 5 hours.

Provides classroom practice to improve speaking skills necessary for management. Builds personal confidence. Develops poise, vocabulary, gestures and the ability to speak extemporaneously. Uses role playing to develop speaking skills in typical business situations. Promotes leadership characteristics, initiative and drive.

Theater

100 Introduction to the Theater (3) UC:CSU (CAN DRAM 18)

Lecture 3 hours.

A survey and theater appreciation course for both majors and non-majors. The class explores what theater is all about, what goes on in theater, and what it means from an audience perspective. The course serks to supply the audient with insights into the theatrical processes in order to give him or her a wider batis for evaluation and cojoyment. All aspects of play production are explored playwrining, producting, directing, acting, criticams, theater architecture, ser design, contains design, lighting design, and the role of the audience.

105 Drama Digest (1) CSU RPT 3

Lecture I four

Recommended for all majors.

Current theatre and performing events are explored! Provides opportunities to attend plays, view acting scenes from clauses and productions, learn about all the artists who create the "magic" of theatre; and its discuss these with faculty members and guest artists.

110 History of the World Theater (3) UC:CSU

Lecrone 3 bouns

Studies the development of the theater from earliest periods to the present. Play readings, films, and historical trends are discussed.

115 History of the American Theater (3) UC:CSU

Lecture 3 leven

Causaders the development of Theater Arts in the United States from early beginnings in America to the present.

125 Dramatic Literature (3) UC:CSU

Lecture 3 bours

Same at English 213. Credit not given for both courses.

Surveys the major dramatic forms in the Western World from the early beginnings to the perion time. Play reading for pleasure, appreciation, and interpretation are stressed. Analysis and criticism follow.

225 Beginning Direction (3) *UC:CSU

Lecture 3 hours

Prerequipites Theater 270 and one technical theater class (Theater 300 shough 400).

Leads the student from the basic script through all the elements necessary to get the play on stage: interpretation, casting, scheduling, movement, blocking, business, pace and timing. Provides firm guidance for beginning direction in the rechnical handling of a script from preparation of a prompt script to working out of technical plots.



232 Play Production (2) *UC:CSU RPT 3

aboratory 6 hours.

Preroquisites Theorer 270, and 342 at 422 at 411 (may be concurrently registered in Theater 342, 411 at 422). Required audition will be held the first work during which case are selected for faculty directed productions.

Represents the culminarion of the student's acting experience. Here students demonstrate their ability to perform in fully staged productions for audiences of the general public, and are encouraged, whenever possible, to develop from monor rules to the creation of more demanding cluracurritations.

240 Voice and Articulation for the Theater (3) **UC:CSU

Lecture 3 hours.

Deals with the fundamentals of good wise, good speech, and dynamic woral expressiveness. Inward these goals the following elements are studied: breathing, posture, resonance, loudness, timing, pinch, and clear articularism.

250 Children's Theater Production (2) CSU RPT 3

Laboratory & hours

Prerequistre: Theater 270, and 342, 411 or 422 (May be consumently registered in Theater 342, 411 or 422).

Required auditions are held the first week of class, during which casts are selected for faculty directed productions. This class is selected to Theater 232, the single exception being the kind of material presented.

262 Special Projects (2) †UC:CSU RPT 3

Laboratory & hours.

Students are given opportunity to plan, reheave, stage and produce projects for presentation before student audiences, or otherwise increase knowledge and experience in dance theater.

265 Movement for the Actor (2) **UC:CSU RPT 1

Lecture I hour: Laboratory Z hours

Selections from plays, poetry and prose are unlimed to train the actor to approach the next from a "movement" point of view. Exercises and improvingious in sensory entire awareness lead to flexibility, balance, energy and expressiveness on stage.

270 Beginning Acting (3) **UC:CSU (CAN DRAM 8)

Lecture 3 bones

Provides instruction in the basic techniques of acting. Prepares the student for subsequent acting classes, and mores one of the requirements for the production class.

271 Intermediate Acting (2) **UC:CSU (CAN DRAM 22)

Lecture 1 hour; Inhunatory 2 hours.

Prerequisites Theatre 270

Provides more advanced instruction in acting fundamentals through the medium of scene study. Greater depth is expected in both characterization and scripe analysis.

273 Advanced Acting (2) **UC:CSU RPT 1

Lecture 1 hour; laboratory 2 hours.

Prerequisites Theater 271

Continues the in-depth work of Intermediate Acting utilizing scenes from macure works of deams. Presentational skills are sharpened as the student is readied for performance.

291 Rehearsals and Performances (1) *UC:CSU RPT 3

Laboratory 3 hours, plus reheavists and performances.

Recommended: Theory 270, 342, 422, or equivalent. Auditions and interviews are held the first week of closes, during which case and rechnical crows are selected for productions.

In this course students are actively involved in the production of plays for college and public performances. Primary emphasis is on the ability to perform acting and stage crew assignments. Students may also work in the areas of publicity, house management, technical theater, or coronning.

292 Rehearsals and Performances (2) *UC:CSU RPT 3

Laboratory 6 hours, plus rehearteds and performances.

Recommended: Theater 270, 342, 422, or equivalent. Auditions and interviews are held the first week of classes, during which suits and reclinical covers are selected for productions.

In this course students are actively involved in the production of plays for college and public performances. Primary emphasis is on the ability to perform acting and stage crew assignments. Students may also work in the areas of publicity, house management, technical theater, or custuming

300 Introduction to Stage Craft (3) *UC:CSU (CAN DRAM 12)

Through locture and laboratory demonstration, covers all phases of scene construction, painting, mounting and running of stage scenery. Also covers the use of wound, lighting equipment, and stage properties.

Additional instruction is given in stage retrained only and the organization and management of stage crew activities.

310 Introduction to Theatrical Lighting (3) *UC:CSU

Leave 3 hours.

Prerequisites Thomes 300.

Presents the basic principles of theartical lighting, designed to familiarize the student with the equipment, the medium, and the design functions of stage lighting.

315 Introduction to Theatrical Scenic Design (3) *UC:CSU

Lecture 3 hours

Prerequisites Thomes 300.

Covers training and practice in the problems of designing for stage including construction and painting sechniques, development of the design concept, budgeting, and modeling the design.

342 Technical Stage Production (2) *UC:CSU RPT 3

Laboratory 6 hours.

Notes Meets Theater 232 prerequisite.

Provides work in all technical aspects of play production in terms of study and laboratory practice, tockuling stage managing, lighting, acene construction, painting, designing, and use of stage equipment. Offers experience in stage erew and technical direction. Required of all first and second semester students.

411 Costuming for the Theater (3) *UC:CSU RPT 2

Lecture 2 hours; laboratory 2 hours. Nates Mees Theater 252 prerequisite.

Surveys theartical committing as a craft and as a design art. Introduces design principles, research methods, pattern and construction rechniques, sewing equipment use and maintenance, and the functions of contume personnel in production work. Lab work may include anignments on current department productions.

422 Applied Costuming for the Theater (2) CSU RPT 3

Laboratory & bours.

Notes Meets Theater 232 prerequisite.

Provides practical experiences in various areas of continue production and presentation. Assignments include: anistance in continue construction and selection; wandrobe mintress and master responsibilities; maintenance and storage of continues. All work assignments are on current department productions.

450 Beginning Stage Make-Up (2) *UC:CSU

Lecture 1 hour; laboratory 3 hours.

Introduces students to the basic techniques and materials of theatrical make-up, and gives practice in its application. Students will learn to apply straight, corrective, middle age, old age, and fantasy make-up. The application of facial hair, scars and bruises and nose purry will also be studied. Lab work may include assignments on current department productions.

- 185 Directed Study Theater (1) TUC:CSU RPT 2
- 285 Directed Study Theater (2) †UC:CSU
- 385 Directed Study Theater (3) †UC:CSU

Conference I hour per unit.

Allows students to pursue Directed Study in Theater on a contract base under the direction of a supervising instructor.

911-941

Cooperative Work Experience Education - Theater See Cooperative Wirek Experience Education

*UC Credit Limit: Any or all courses combined, maximum 12 units.
**UC Credit Limit: Any or all courses combined, maximum 12 units.

Typewriting

See listing under Office Administration

Welding

See listing under Industrial Technology - Welding

Woodworking

See listing under Industrial Technology - Woodworking

Word Processing

See listing under Office Administration

1998

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Tracher, Campui Child Development Great

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Crozer, Norman P. (1974):

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Gallo, John (1981)

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Gani, Scarlett (1985)

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Goerss, Harold E. (1971)

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Gettlieb, Seymour (1970)

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Habib, Nicholas T. (1976)

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Haskell, Barry S. (1958)

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Lieu, Sandi (1985)

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Logan, J. Barrie (1972) ofener of Chemistry

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O'Hanlox, Lynne (1969)

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B.A., California State University, Northeidge

M.A., University of California, Los Angeles

Sears, Malcolm G. (1977)

Professor of Nassoul Resources Management

B.S., Humboldt State College

Seigel, David (1976)

Professor of Business

L.L.B., Cleveland Manhall Law School

J.D., Cleveland State University

Shapiro, Leland S. (1976)

Prefesor of Animal Science

B.S., M.S., California Polytechnic State University.

San Luis Obispo

Ph.D., Oregon State University

Licensed Paracture, State of California Registered

Small Animal Diesitian.

Sharpe, Kenneth J. (1984)

Professor of Electronics

Department Chairperson; Electronics

B.S., California State Polytechnic University,

M.A., California State University. Los Angeles

Sheff, Elleen T. (1979)

Professor of Connecting

B.S., Ohio State University

M.S., California State University. Long Beach

Sheldon, Charles C. (1988)

uciate Profesior of English

B.A., University of California, Santa Barbara M.Lin, University of Ediobusth, Scotland

Shapherd, Henny B. (1970)

Professor of Physical Education

B.A., California State University, Northridge M.S., California State Polytechnic University.

Sherman, Arthur A. (1984)

Professor of Computer Science and

Information Technology

Department Charperson, Computer Science B.A. University of California, Lea Angeles

Siever, Patricia G. (1989)

Professor of Honey

B.A., University of California, Los Angeles

M.A., University of California, Los Angeles A.B.S., University of California, Los Angeles

Skidmore, Richard D. (1975)

Professor of Busine

B.S., M.S., California Polyochnic State University. San Luis Obispo

Small, Laurence (1974)

Professor of Mathematics

B.A., University of California, Los Angeles M.S., California State University, Northridge

Smetzer, Ronald D. (1981)

Professor of Industrial Technology

District Academic SenateVice President

A.A., A.S., Los Angeles Pierce College

B.A. University of State of New York

CMfgE (Certified Manufacturing Engineer), Society of Manufacturing Engineers

Smith, Richard A. (1986)

Professor of Psychology B.A., Leyola University

M.A., California State University, Los Angeles

Snider, Kathleen E. (1989)

Associate Professor of Nursing R.N., Saint Vincent's College of Nursing

B.S., Mount Saint Mary's College

M.S., California State University, Los Angeles

Socceccio, Joseph M. (1977)

Professor of Photography Department Chatrperson, Media Arts

A.A., Los Angeles Valley College B.F.A., Art Center College of Design

Solomon, Marcia S. (1976)

Professor of Nursing

Department Chairperton, Nutting

B.S.N., Fairleigh-Dickinson University M.Ed., Johns Hopkins University

Ed.D., Nova Southwestern University Diploma, Sinai School of Numing, Baltimore

South, Richard W. (1976)

Professor of Horticulture Department Chairperson, Agriculture and

Natural Resources

B.S., Southern Illinois University M.S., California Polynchnic State University, San

Luis Obispo

Sparkx, Donald M. (1989)

Professor of Physics
B.S., Humbolde State University

M.S., M.A., California State University, Northridge

Stanley, Kenneth (1966) Professor of Physical Education
B.S., University of Southern California

Stein, Phillip L. (1965)

Professor of Authorpology B.A., M.A., University of California,

Los Argeles

Sutton, Daryl Lynn (1979) Professor of Nursing B.S., University of California, Los Angeles

M.S.N., University of California. Sun Francisco

Ed.D., Nova Southeastern University

Taylor, Rowan S. (1964)

Professor of Music A.B., M.A., Brigham Young University

Thomas, Carmelita (1995)

Vice President, Academic Affairs

B.A., M.A., Ed.D., University of California, Los Angeles

Thomas, Louise B. (1975)

Profesor of Nursing

B.S., Weshington State College M.S., University of Colorado

Thomsen, Mary Joan M. (1964)

Professor of Psychology

B.A., M.A., University of California, Los Angeles

Thomsen, Terry (1966)

Professor of Business Administration B.S., Beaulity University

M.B.A., University of California, Los Angeles

Thouin, Laurence G. Jr. (1982)

Professor of Biology

B.A. Occidental College

M.S., Ph.D., University of Southern Caldiornia

Tishler, Roger (1984)

Professor of Mathematics

B.A., Bossin University M.S., Tirlane University

Trinchero, Bart L. (1968)

Professor of Industrial Technology

B.A., M.A., California State University, Los Angeles

Waldron, Jill R. (1971)

Professor of English

B.A., Illinois Weslevan University M.A., University of Illinois

Warren, James A. II (1970)

Profesor of Mosic

B.A., University of California, Lot Angeles M.M., University of Southern California

Wechsler, Ronald (1978)

Professor of Assimal Science

A.S., Los Angeles Pierre Gollege Class A Vocational Condential, University of California, Los Angeles

Weiser, Marian S. (1963)

Prefesor of Physical Education B.S., University of Wysming M.A., Mills College

Weiss, Bernd (1985)

Professor of Psychology

B.S., University of California, Berkeley M.S., California State University.

San Erancisco

M.A., University of California, Los Angeles Ph.D., University of California, Los Angeles De Humanines (Hon.), Ken Stadies Institute Geroficate Post Dectoral Scholar,

University of Caldernia, Los Angeles

Wells, Raymond A. (1985)

Professor of Boology

B.A., M.S., California State University, Northeidge Ph.D., University of Southern California

Whalen, Paul L (1985)

Dean, Academic Affain

A.A., East Los Angeles College B.A., California State University, Los Angeles B.S., M.S., North Texas Surg University

White, Elizabeth G. (1982)

Assesser Professor of Voterinary Technology A.S., Los Angeles Pierce College A.H.T., State of California

Williams, Sheila M. (1990)

Profesor of Hanry:

Department Chair of History

B.A., M.A., California Store University, Northeidge

Wittman, Darlene K. (1979)

Professor of America Sign Languages Searcesers Education

B.A., M.A., California State University, Northridge

Yamada, Katsuya (1989)

Professor of Physics

B.S., Tokyo Denki Dugaku, Tokyo M.S., Ph.D., University of Tencesee

Yoder, Kathie A. (1988)

Professor of Mathematics

B.A., Moure St. Mary's College

M.A., University of California, Santa Barbara M.S., California State University, Northeidge

Yeshiwara, Bruce W. (1989)

Professor of Mathematics

B.A., M.A., Ph.D., University of California, Los Angeles

Yoshiwara, Katherine (1980)

Profesior of Mathematics

B.S., Michigan State University Los Angeles M.A., University of California, Los Angeles

Zappala, Robert R. (1976)

Professor of Astronomy

B.S., Case Institute of Technology

M.S., University of Chicago

Ph.D. University of California, Sama Cruz

Zitzelberger, John F. (1987)

Professor of Electronic

A.S., Don Bosco Technical Institute

B.S., California State Polytochnic University.

Pimora

M.S., California State University, Lox Angeles

EMERITI

Adelson, Ben H.; 1965-1981;

Profesor of Journalism

Alberti, Len, 1956-1980;

Professor of Chemistry Abasez, E.C., 1955-1983;

Professor of Computer Science

Anderson, Arshur J.; 1955-1980;

Professor of Business Administration

Anderson, Donald; 1962-1995;

Professor of Philosophy

Anderson, Ellen S.; 1965-1993; Professor of Professor

Anderson, Roger; 1994-1995; Professor of Mathematics

Andrina, Ruben D.; 1966-1993; Professor of Modern Languages

Angier, Edwin; 1947-1955; Provident of the College

Ann. Lavoy Earl, Jr.; 1966-1989; Professor of English

Bakes, Robert S.; 1985-1995; Professor of Theater Arm

Professor of Theater Are Ball, Odio C.; 1975-1995;

Professor of Theater Professor of Physical Education; Bardeen, Jean Elizabeth; 1951-1975;

Professor of Physical Education: Department Chairperson, Physical Education /Western

Barlow, John D., 1949-1964; Professor of Animal Science

Parragar, Roberta Thomas; 1966-1995; Professor of Art

Brugh, Frank A.: 1961-1988;

Professor of Assemal Science, Asserant Dean, Academic Affairs

Haumgartner, Widne: 1966-1978; Francial Aids Coordinator

Boyes, Diana E.; 1967-1984;Professor of Special Reading/English

Becker, Victor M.; 1999-1978;

Professor of Speech/Theater Arts: Department Chairperson, Speech/Theater Arts

Billings, Leona R.: 1971-1982a

Associate Professor of Philosophy/Sociology

Bird, Billy G., 1968-1995; Professor of Fiscal Design

Bohop, Raymond Thomas; 1957-1982: Professor of Physical Education

Bogges, W. Lindsey, 1947-1982; Professor of Animal Science Boyd, flathers J.; 1966-1973; Assistant Professor of Physical Education Boyd, John A.; 1966-1992; Associate Professor of Physical Education

Bradley, Henry A. 1962-1997 Professor of Modern Languages

Bradley, Robert R.; 1969-1995; Professor of Business Administration

Beave, Edward: 1970-1991; Professor of Physical Education

Briggs Margaret 1970-1981: Lecturer in Chemistry

Bruce, Robert Nigel; 1961-1983; Professor of English Buquoi, Tyrus W.; 1966-1980;

Professor of Machematics Caspenses, Casperine M., 1973-1994;

Professor of Nursing, Acting Dean, Administration

Canco, Charles C.; 1963-1983; Professor of Mathematics

Carrillo, A. Alexander: 1968-1989; Professor of Art

Castellano, Ritz; 1968-1995; Professor of Archropology

Cavenaugh, Jane T.; 1970-1982; Professor of Psychology Chambers, Ada E., 1957-1974;

Profesor of Philosophy Chumbers, James V.: 1968-1985;

Professor of English Chambers, Robert D.; 1957-1989; Professor of Physical Education

Chapman, Norman C.: 1957-1968; 1977-1982; Professor of Music; Dean of Instruction

Charland, Gustase M.; 1958-1972; Professor of Feoriga Languages Chare, Robert; 1971-1985;

Dean of Academic Affairs Chookolings, Frank C.; 1999-1984; Professor of Political Science

Professor of Political Scient Christic, Eurlyn G.;1963-1997

Professor of Chemistry Clark, John Paul; 1955-1978; Locturer in Music

Clack, Marjory Q.; 1967-1983; Professor of Business

Claff, John M.; 1966-1989; Professor of Political Science

Colds, Charles M.; 1970-1983; Professor of English Colten, Sylvia L.; 1965-1995;

Professor of Psychology Corbeil, John W.; 1965-1992;

Professor of Art Craig, Wesley V.; 1964-1976c

Associate Professor of Act Crandall, James W.; 1965-1991; Professor of Act

de Champlon, John S.; 1965-1984; Professor of Footign Languages

DeLance, Genrude Anne: 1980-1997 Professor of Computer Science and Information Technology

De Leon, Ralph: 1961-1986; Professor of Physical Exhibition

Deling, Leonard V.: 1974-1994; Professor of Electrotics

Dengler, Benc 1968-1993; Professor of Architecture

Deorik, Waher A.; 1957-1988; - Associate Professor of Engineering

DesMartens, Philip D.: 1976-92; Professor of Animal Science

Deutsch, Joseph; 1957-1980; Professor of Business

Devey, John S.; 1966-1985; Professor of Geography Dissan, James; 1949-1982; Professor of Hornicalture; Condinator of Administrative Services

Dow, Eugener 1957-1982; Protessor of Theater Arts.

Droevan, Irving: 1956-1983; Professor of Mathematics

Drummoud, Paricia A.: 1991-1995; Professor of Counseling

Elman, Sidney H.; 1961-1995; Professor of Palmical Science

Enger, Robert R. 1988-1996; Anuetate Professor of Business

Enkerna, Patricia; 1967-1987; Professor of Biology

Enser, Shirley A.; 1976-1986; Lecturer in Physical Education

Farhood, John N.; 1986-1991; Dean of Academic Affairs

Face, Mary Joc 1978-1995; Professor of Music

Farms, Bonald D.: 1968-1989; Professor of Foreign Languages, Department Chairperson, Foreign Languages

Feldman, Bernard: 1967-1983; Professor of Mathematics

Fasello, Geuldine Y.; 1961-1990; Professor of Physical Education

Fisk, Richard; 1985-1995; Professor of Music

FinGenkl, Richard E.; 1970-1995: Professor of English

Flerring, Frank Jacob; 1957-1975; Professor of Mathematics

Folson, Hannah B.; 1965-1972; Associate Professor of English

Fours, Harold: 1963-1984; Professor of Psychology

Friedrich, Linda B.; 1987-1995; Professor of Nursing

Farman, Mildredt 1971-1986; Professor of Health Education

Gaper, Louir, 1963-1976; Professor of Sociology: Department Chairperson, Philosophyl Sociology

General, Gero; 1971-1983; Professor of Arr

Graring, Richard A., 1970-1987; Counselor

Gechinan, Misray, 1956-1989; Lecturer in Mathematics; Department Champerson, Mathematics

Gengerelli, Carmen N.; 1964-1978; Associate Pinfessor of Fineign Languages

Gerber, Mysser, 1970-1995; Professor of Physical Education

Gibson, Don W.: 1958-1972; Associate Professor of Animal Science

Goldbioom, Erwin M.; 1965-1995; Professor of Physical Education

Goldblum, Shridon M.; 1970-1995; Professor of History

Goodman, Farrence J., 1958-1978, Professor of English

Goodman, Janier 1958-1988; Professor of Business; Assurant Dean, Academic Affairs

Green, Gladyn; 1964-1980; Professor of English

Gutter, Mary Ellen; 1975-1994; Professor of Office Administration

Hudel, Walter H.; 1958-1976, Assertant Desit of Admissions and Records

Hatley, Lindy Loss, 1964-1989; Professor of Physical Education

Haffke, Elmor D.; 1975-1993; Anocuse Professor of Nursing Professor of Counciling. Haight, Fletcher M.: 1957-1980; Lecturer in Cooperative Education

Halby, William A.; 1966-1987; Professor of Industrial Education; Director, Cooperative Education

Hall, Fay K.; 1986-1989; Professor of Numing

Hacksminer, Larry; 1968-1995; Professor of Physical Education

Hardesty, James N.; 1963-1995; Professor of Mathematics

Hams, Sigmand P. 1966-1986; Professor of Physica

Harwick, Berry C. B.; 1966-1995; Professor of Sociology

Department Chairperson, Philosophy/Sociology

Hawkins, Jane; 1968-1988; Lecturer in Theater Arts

Hayworth, Edward: 1963-1993; Professor of Business Administration

Heckel, Russel H.: 1969-1995; Professor of History

Hrss, Jack D.; 1956-1985; Professor of Foreign Languages, Department Chairperson, Foreign Languages

Hinkson, Eugene R.: 1956-1982) Professor of Polisical Science

Hierchi, Milnon; 1958-1994; Professor of Art

Holiday, Jay E.: 1956-1964; Assistant Professor of Psychology: Department Chairman, Behavioral Science

Holloway, Milderd B., 1969-1979.
Professor of Norsing Department Chairpenson,
Nursing

Hopkins, Keith E.; 1968-1994; Professor of Physical Education

Hopkins, Robert C.; 1971-1982; Professor of Computer Science

Hopper, Barbara K.; 1968-1982; Professor of Biology

Horsung, Beny: 1984-1985; Associate Professor of Psychology

Horse, Donald P. 1970-1988; Professor of Theater

Horton, Gwendolyn; 1973-1983; Professor of Narsing

Hotop, Max. 1963-1989; Assistant Professor of Physics: Counselor

Hengheen, Sadako H.; 1966-1986; Professor of Biology

Haber, William A.: 1965-1989; Professot of Chemistry: Department Co-Chairperson, Chemistry

Hubbell, John L.: 1965-1994; Professor of Foreign Languages

Hund, Edgar; 1972-1988; Professor of Electronics

Hylton, Wallace; 1985-1989; Professor of Act

Jampol, Sylvia; 1968-1982; Professor of Physiology

Johnson, James C.; 1970-1994; Professor of Industrial Technology

Johnson, Ray, 1964-1973; Dean of Immuction

Jones, Collins E.; 1950-1976; Professor of Physical Education

Jones, Harry; 1963-1994; Professor of Electronics

Kaliomes, Carole S.; 1968-1995; Professor of Library Science

Kanack, John: 1985-1989; Lacrorer of Industrial Education

Karpel, Eli; 1958-1981; Professor of Art Keliher, Maurice B.; 1956-1981; Professor of Business Administration; Counselor

Keney, Vierling, Jr.; 1947-1971; Dean of Educational Services

Kharimooff, Alexander G.; 1965-1986; Professor of History

Khasigian, Amou 1965-1983; Professor of Economics

Kiner, Nislan W.; 1950-1976; Professor of Horriculture

Kleeb, Jane; 1963-1986; Professor of English

Knapp, Kenneth, 1969-1986; Professor of Vocasional Education

Kohler, Max J.; 1948-1958;1971-1982; Lecturet in Agriculture

Kistanick, Crieste B.; 1957-1983; Professor of Geography Kuljian, Ernest S.; 1951-1984;

Kuljus, Ernest 5; 1951-1984; Professor of Chemistry Lagrenmen, James 1966-1997

Professor of Speech Communication Department Chairperson, Speech Communication

Lambert, Karlayne 1966-1993; Professor of Business Administration

Landau, William; 1966-1989; Professor of English Lebow, Ruth; 1968-1984; Professor of Occunography

Leventhal, Robert M.: 1963-1995; Professor of History

Lewis, William E.; 1981-1984; Dean, Seadent Services; Associate Professor of Business Administration

Livency, Jack; 1983-1995; Associate Professor of Computer Science and Information Technology

Lord, Marjorie B.; 1951-1970; Dean of Students

Love, Don; 1976-1995; Vice President, Administration

Loucks, Jeun; 1971-1990; Vice President, Academic Affairs

Licke, Roy; 1964-1995; Professor of Mathematics Maas, Evan; 1951-1975;

Mean, Even; 1931-19/3; Dean of Student Personnel MacMatter, Joan H.; 1969-1995;

Professor of Hansey, Department Charperson, Hansey/Humanities

Madden, William R.: 1959-1983; Professor of Library Services

Majer, Lincoln; 1972-1975; Lecturer in Vocational Education Marrelli, Richard S.; 1975-1984;

Micretli, Richard S.; 1975-1984; Professor of Industrial Education

Madasa, Derald L.; 1969-1995; Professor of Biology

Martin, Marie; 1966-1970; Persident of the College Marton, Arnold; 1966-1983;

Profesor of Speech

Mason, Joyce. 1967-1990; Professor of Boxiness

Marchett, Bruce; 1962-1983; Professor of Speech & Theater Arts

McCarre, Marcella A.: 1961-1981; Professor of Health Services

McClarchey, William D.; 1986-1989; Professor of Azzharopology

McCackin, Russell, 1963-1983, Professor of Physics

McCordy, Richard M.; 1966-1985; Professor of Chemistry

McCarcheon, Thomas; 1983-1994; Associate Professor of Mathematics

McWilliams, Marian, 1958-1995; Professor of Physical Education

Mead, Earl. 1966-1987; Professor of Sociology: Department Charpeness, Philosophy/Sociology

Means, Daniel G.; 1989-1931; Professor of Educational Guidance: Prendent of the College

Meldman, Mary R.; 1964-1995; Professor of Mathematics Mersers, Mary J.; 1965-1995;

Professor of English Moore, Anna; 1957-1989;

Lecturer in Physical Education Morosi, J. William; 1964-1980;

Dean of Administrative Services Moner, Chester P.: 1962-1983; Professor of Vocational Education

Mair, John K.: 1964-1989; Lecturer in Physical Education Manuer, Robert E.: Jr.: 1965-1995;

Numey, Robert E., Jr.: 1965-1995; Professor of Industrial Technology Nardin, Barbara: 1976-1988;

Nartin, Bettata; 1976-1988; Associate Professor of Geology Nickins, John R.; 1970-1973;

Acting President of the College Niles, Charles, 1964-1974; Ausocate Professor of History Norman, Guineverr Guy; 1965-1986;

Norman, Guineverr Guy: 1965-1986. Professor of Sociology Obrecht, Finderick P.: 1992-1995.

Professor of English Resource Development Officer O'Connuc, Robert, 1963-1994;

Professor of Health Education Odogani, Particia, 1979-1989;

Odeganl, Particus 1979-1989; Professor of Nursing Oliver, Lois C.: 1964-1978;

Professor of Business; Evening Department Chairperson, Office Administration

On, Wales H.; 1947-1969; Professor of Indonesia Acre, Department Champerson, Technical/Indonesia

Pack Rudolph S.; 1957-1976; Associate Professor of Chemistry Page James S.; 1974, 1995.

Part, Jone S.; 1974-1995;
 Professor of Courseling
 Paulman, Jack S.; 1967-1977;
 Professor of Computer Science

Professor of Computer Science Pence, Robert L.; 1969-1995; Professor of Authropology

Professor of Anthropology Pendleton, James; 1979-1989; Professor of Physical Education Perry, Genald E.; 1964-1995;

Professor of Physical Education Department Ca-Charperson, Physical Education-Men

Pererson, Philip E.; 1975-1994; Professor of Mathematics Pall, Beamice L.; 1955-1982;

Professor of Chemistry Popkin, Himan A.; 1970-1982; Professor of Industrial Education

Professor of Industrial Education Powell, Mark L.: 1967-1995;

Professor of Geography Department Charpeness, Earth Science/Physics Profes, Euro E., 1968-1992.

Professor of Business Administration

Rabos, Joseph; 1968-1989; Professor of English Raskin, Jerome E.; 1953-1988;

Professor of Physics

Rawenit, Herbert 1958-1970;1978-1985;

President of the College, Associate Professor

President of the College, Associace Professor of English

Raymund, Joan M.: 1970-1986; Lecturer in English Reid, Marion; 1978-1986;

Associate Professor of Industrial Education

Reids, James B. Jr.; 1976-1989.
Professor of Computer Science; Department Champerson, Computer Science and Information Technology

Ferna, Joseph; 1971-1983; Professor of Vocational Education

Richards, James R.; 1986-1991; Professor of Psychology

Richards, Makons G.; 1964-1980; Professor of Vocational Education

Rogers, Ruby R.; 1970-1980; Attacing Professor of Numing Rosemark, Erika; 1974-1989;

mure, Frida; 1974-1989; Amintare Professor of Early Childhood Education Director, Campus Children's Genter

Roses, William J.; 1976-1988; Amottou Professor of Mathematics

Resemberg, biodost; 1965-1990; Protessor of Special Reading/Psychology

Rescubal, Marilyo L., 1987-1989, Professor of Narsing

Resentating, Asson B. 1963-1980; Professor of Music

Ross, D. Lec. 1971-1986. Denn. Academic Affairs

Borbe, Martin 1957-1978; Professor of Mathematica

Rantell, Howard J.; 1962-1985; Professor of Speech. Sandon Roscol I - 1963, 1982.

Sunden, Bernyl J., 1953-1963; Professor of Animal Science Sumilaries, Vinesa: 1974-1995;

Associate Professor of Special Education

Scheibel, Barbara G.; 1976-1989; Professor of Special Reading/English.

Scheibel, Robert W., 1969-1989. Professor of Journalism Schneider, David, 1970-1984.

Professor of Sociology Schoolderman, Besh; 1971-1991;

Professor of English Schruben, Francis W.; 1958-1989; Professor of History

Schulman, Bersen R.; 1966-1989, Professor of English

Schulmun, Florence W.; 1968-1987; Professor of Health: Physical Education, Leisure Management

Schulman, Sandez 1972-1989; Discree, Study Skills Center; Perfessor of Special Reading/English

Shaver, James R.: 1987-1995, Professor of Sociology

Shaw William L.: 1958-1995; Professor of Electronics.

Sheldon, M. Stephen; 1975-1983; Cocodinator, Institutional Research

Shacket, Sol: 1959-1992; Professor of Economics

Sierrens, David E., Jr.; 1966-1986; Professor of Philosophy

Siber, Companie R.; 1969-1988; Commelor

Silventein, Paul; 1962-1991; Professor of Psychology

Sirakides, Leo N.; 1973-1995; Professor of Business

Siskin, Burms E. 1986-1995; Professor of Austropology

Skovner, Alfred, 1977-1994; Professor of Modern Languages

Slattery, Eugener R., 1950-1993. Professor of Mathematics

Smilykovch, Oerradi 1965-1977; Assurant Professor of Feorige Languages

Senth, Denald A.; 1982-1992; Professor of Business Administration Smith, Thomas, 1964-1987;

Professor of Library Services Smith, Walter Henry, 1956-1995; Professor of Arr Snooks, A. Nancy (1971)
Professor of Act
Stocking, Agues; 1962-1986;
Professor of Business

Surberland, Mirians M.; 1976-1989; Professor of Numing

Thompson, William L.; 1962-1991; Professor of History

Tonsch, John W.; 1965-1995; Professor of Computer Science and Information Technology

Topik, Fird S., 1959-1977; Professor of Freege Languages Topishima, Jun; 1964-1989; Lacenter in History

Titadwell, Terence J.: 1986-1932; Associate Professor of Psychology

Torney, Kay E.; 1965-1995; Professor of Physical Education Department Charperson, Physical Education/Wagners

Van Anker, Alfred J.: 1961-1986, Professor of Art

Van Vlamdown, Bernard, 1976-1994; Professor of Mathematics Van Noy, A. Henry, 1964-1993;

Professor of Business Administration Van Voorbis, James C.: 1964-1989.

Vitt Voorbis, James C.: 1964-1989: Professor of Architecture Version, James Y.: 1971-1986;

Professor of Mercerology Ver: Brown, Marion F.: 1958-1985; Professor of Music

Walker, John Michael; 1973-1989; Locture of Hosticulture

Whed, Benjamin B., 1947-1972, Postessor of Horticulture Whitman, Otene, 1972-1989.

Professor of Narsing Wilson, Robert G.: 1965-1983.

Prinfessor of Sociology Williamson, Jean; 1964-1984;

Associate Professor of English Williams, Charles R.; 1974-1995; Amistan Professor of Physical Education

Williams, Robert L.: 1969-1980; Associate Professor of History

Wilson, Charles C., 1961-1984; Professor of Journalism

Wilson, Gunie Erbereite 1964-1975; Professor of Business Wilson, William 1968-1975.

Wiscons, William; 1958-1972; Americae Professor of Mathematics

Woods, Doesis S.; 1989-1995; Associate Professor of Nursing Wysms, John, 1957-1978;

Professor of Philosophy Xanthos, Paul J., 1965-1989, Professor of Physical Education

Zeidin, Herbert, 1980-1989; Counselise: Professor of Education

GLOSSARY OF TERMS

Academic Probation + Afric attempting 12 units, a makes whose cimulative grade point average (beginning Full (181) falls below 2.00 is placed on academi probation. A modern whose consulative grade prior average falls below 2.00 for three connective semesters is strbuct to disminal from the College.

Academic Benewal - Removal of submandard grades from a modern's academic record for purposes of companing the grade point overage; special conditions must be our

Add Permit - A card issued by an interactor upon processarion of a valid Registration/Fee Receipt which permits the student to add the class if the instructor determines that there is room. Employers in the class is official only if the Add Persist is processed by Administra & Records before the published deadline

Admissions and Records - The office and staff that admirs a student and certifies his or her second of college work; also provides legal transitical data for the Callege.

Administration - Officials of the College who direct and supervise the activities of the institution.

Application for Admission - A form provided by the College on which the student cores alconfying data and requests admintance to a specific semester or session. A student may not register and entroll in classes until the application has been accepted and a Pennis to Register

Assessment Tests - Tests given prior to idminion which are used to determine the student's assignment to the most appropriate class level.

A.S.O. + Organization to which all enrolled students are eligible to join called the Associated Student Organization.

Associate Degree (A.A. or A.S.) - A degree (Associate in Arts or Associate in Science) granted by a community college which recognizes a student's satisfactory completion of an organized program of study consisting of 60 to 64 sensesser since.

Bachelor's Degree (B.A., A.B., B.S.) - A degree granted by a four-year college or university which recognizes a student's sutisfactory completion of an segational program of study associating of 120 to 130

Certification of Completion - A certificate granted by a currentarity college upon satisfactory completion of a formal program of vocamental seady of 16 m 45 units.

Community College - A rwa-year college offering a wide range of programs of study, many determined by local community need.

Concurrent Enrollment - Enrollment in you or more classes during the same somester. Also, corollment of a madeur attending a K-12 school and a community college at the same rane

Continuing Student - A student registering for classes who attended the College during one of the previous two semesters. A student registering for the full semester is a continuing student if he or the attended the College during the previous speing or fall somesters, attendance danning rise aureuries session is not included in this

Corequisità - A requirement due must be sambed at the same time a particular course is taken; usually a companie is concurrent enrollment in another course.

Counseling - Guidance provided by professional counselors in collegiate, vocational, social, and personal matters.

Course - A particular portion of a subject selected for study. A Course is identified by a Subject Title and Coune Number, for example: Accounting 1.

Course Title - A phase descriptive of the course consent, for example the course tide of Accounting 1 is, Introductory Accounting L

Credit by Examination - Course or unit credit granted for deministrated profesioncy chrough teningCredit/No Credit - A from of grading whoreby a odent receives a grade of CR or NCR instead of att A. B. C. D. or F. A CR is assigned for class work equivalent ma grade of Cor above.

Dismissal - A sudent on academic or progress probution for those consecutive sentences may be dismissed from the College. Once dismissed the student may not attend any college within the Los Angeles Community College District for a period of one year and must penrion for readmirtance at the end of that period

Educational Program - A planned sequence of credit sistences leading to a defined educational objective such as a Certificate of Completion or Amociate Degree.

Electives - Courses which a mident may choose without the restriction of a particular major program-

Encollment - Thur part of the regustration process during which students select clause by ticket number to reserve a seat in a selected class and be placed on the class nates. A madent may also excell in a class by processing an Add Permit obtained from the instructor of the class

Full-time Student - A student may be verified as a fulltime student if he/she is enrolled and acrose as 12 or more units, during the full or Spring sestence.

General Education Requirements - Jaho called Brealth Requirements. A group of courses selected from several disciplines which are inquired for graduation.

Grade Points - The numerical value of a college letter grade: A-4, B-3, C-2, D-1, F-0.

Grade Point Average - A measure of academic achievement used in decisions on probusion, graduation, and transfer. The GPA is dearmined by dividing the total grade points carned by the number of attempted units.

Grade Points Earned - Grade points times the number of units for a class

INC - Incomplete. The administrative symbol "I" is recorded on the student's permanent record in situations in which the student has not been able to complete a course due to circummunces beyond the student's control. The student must complete the course within one year after the end of the semester or the "I" revers to a letter grade denomined by the instructure. Courses in which the student has received an Incomplete ("I") may not be repeated unless the "I" is removed and has been replaced by a letter grade. This does not apply to courses which are repeatable for additional crafts.

IP - In Progress. An "IP" is recorded on the unident's permanent record at the end of the first senseses of a course which continues over parts or all of two semesters. The grade is recorded at the end of the semester in which the course ends.

Lower Division - Courses at the freshman and soplumner level of college.

Major - A planted series of courses and activities selected by a mideut for special emphasis which are designed to seach certain skills and knowledge.

Matriculation - A process designed to assist students to achieve their educational goals.

Minor - The subject field of snally which a student chooses for secondary emphasis.

NDA - Non-degree applicable.

Non-penalty Drop Period - The fast four weeks of a regular semester during which a student's enrollment in a class is not renefied on the undear's permanent record if the malast drops by the deadline. This deadline will be different for short-term and summer senson courses.

Parent Course - A usune which may be offered in asodules. Credit for all modules of a parent course is expansions in credit for the parent course. Parent courses are all cromes without letters in the course number field.

Permit to Register - A form listing an appointment day and time at which the student may regions. The permit is smooth to all new students upon acceptance to the College, and to all continuing students. Prerequisite - A requirement that must be satisfied before enrolling in a particular course untally a previous singlest, he is not score

Progress Probation - After entelling to 12 units a student whose total units for which a W. NCR, or I has heen assigned equals 50 percent or more of the units enrolled is placed on progress probation. A student whose cumulative number of units (beginning Fall 1981) for which a W. NCR, or I has been assigned equals 50 percent or more for three consecutive sementers is subject to disminul from the College.

RD - Report Delayed. This temporary administrative symbol is recorded on the student's permanent record. when a course grade has not been received from the instructor. It is changed to a letter grade when the grade suport is received.

Registration - The process whereby a continuing student or a new or metering student whose application has been accepied formally enters the College for a specific semienter and receives a Registration/Fee Receipt. The student may enroll in open classes as part of the перитионо реосем.

Returning Student - A former Pierce student regimering for classes who did not seemd the College during the previous two semesters. A student regimening for the fall semester is a seruming student only if he or she did not attend the College during the previous spring or fall semesters; attendance during the summer session is not included in this determination. Returning students must file a new Admissions Application.

Schedule of Classes - A booklet used during registration giving the Subject Title, Course Number. Course Title, Uren, Time, Immurior, and Location of all classes offered in a semester.

Section - A group of registered students meeting to study a particular course at a definity time. Each section has a section number listed in the Schedule of Clauses before the scheduled time of class meeting.

Section Number - Ser "Section", above.

Somester - One-half of the academic year, usually 20

Subject - A division into which knowledge customarily is assembled for study, such as Art, Mathematics, or Pothology.

Subject Deficiency - Lack of credit for a course or courses required for some particular objective, such as graduation or acceptance by another institution.

Transfer - Changing from one collegiate institution to another after having mer the requirements for admission to the second immination

Transferable Units - College units extend through satisfactory energiesion of courses which have been articulared with four-year institutions.

Transcript - An official list of all courses taken at a college or university showing the final grade received for

Transfer Courses - Courses designed to much lower division courses of a four-year institution and for which credit may be transferred to that instinution.

Units - The amount of college credit earned by satisfactory completion of a specific course taken for one semester. Each unit represents one hour per week of lecture or recration, or a longer time in laboratory or other executes not requiring outside preparation.

Units Attempted - Total number of units in the courses for which a modern received a grade of A. B. C. D. or E.

Units Completed - Total number of units in the courses for which a student received a grade of A, B, C, D, or CR

W - An administrative symbol anigned to a student's permanent record for all clauses which a student has dropped or has been excluded from by the instructor after the end of the non-penalty drop date but before the last day to drop.

Withdrawal - The action a modern takes in dropping all cluses during any one semester and discontinuing counceask at the College.

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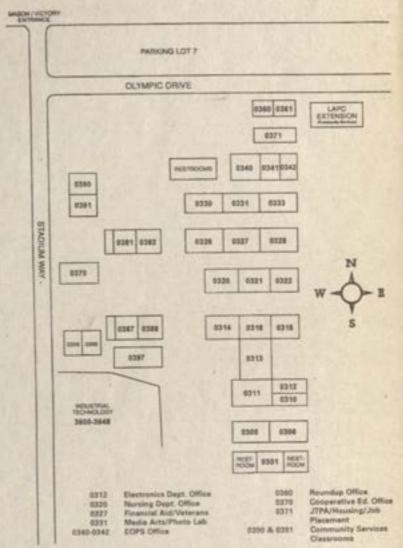
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Campus Bungalow Map

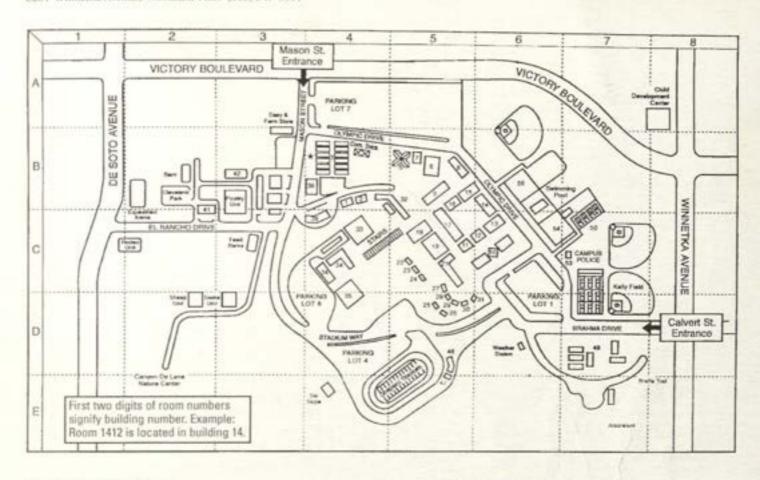
Building Abbreviations

Dunaing ribaro	
	Anthropology
ARENA	Equestrian Arena
	Art
AS	Agricultural Science
BEH	Behavioral Science
BUNG	Bungalow
BUS	Business Administration
CDCNTRCh	nild Development Center
	Chatsworth Center
	(Off Campus)
CHEM	Chemistry
	Computer Science
	English
	. El Camino Real Center
	(Off Campus)
FIFID	Men's Gym Area
	Field House
	Faculty Office
	Geography
	Horticulture
	Industrial Technology
	Library
	Tennis Courts (lower)
	Life Science
	Mathematics
	Men's Gym
	Modern Language
	Metal Trades
	Music
	Off Campus
	Performing Arts Building
	Women's Gym Patio
	Physics
	Social Science
	Soils Lab
	. Special Services Office
	Shepard Stadium
	The Learning Center
	Tennis Courts (upper)
	Women's Gym
	Men's Gym Weight Areas



Los Angeles Pierce College Campus

6201 Winnerka Avenue, Woodland Hills (818) 347-0551



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Administration	10	C-6	GAIN/CalWorks	16	B-5
Admissions & Records	10	C-6	Geography	2	B-4
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Behavioral Science	13	C-6	Life Science	17	C-5
Bookstore	19	C-5	Life Science Learning Ctr.	21	C-5
Bungalows	3	B-4	Mathematics	14	B-6
Business Education	32	B-5	Media Arts	3	8-4
Business Office	19	C-5	Media Conter	18	C-5
Cafeteria	5	B-5 B-5	Men's Gym	54	C-6
Campus Center	53	C-7		38	C-4
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2	Goography	16	Learning Center
3	Bungalows	17	Life Science
	Community Services	18	Library
	Cooperative Education	-	Media Center
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	Media Arts		Learning Ctr.
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	Speech	34	Music
	Veterans Office	35	Performing Arts
5	Cafeteria	36	Industrial Technology
6	Campus Conter	38	Metal Trades
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	Health Center	42.	Agricultural Engineering
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9	Physics-Engineering	50	Tennis Courts (lower)
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